

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3232	13125	25781	0.84	9.0E-14	AA781159.1	EST_HUMAN	aj24c01.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391232 3' similar to contains MER19.11 MER10 repetitive element;
3778	16330	29169	6.85	9.0E-14	D14547.1	NT	Human DNA, SINE repetitive element
4707	17439	30071	1.86	9.0E-14	AJ002163.1	NT	Seguinus oedipus gene for seminal vesicle secreted protein semenogelin I
3489	16245		1.27	8.0E-14	BE468263.1	EST_HUMAN	hcz71c09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3213424 3'
3937	16687		2.67	8.0E-14	R76289.1	EST_HUMAN	yf72e03.1 Soares placenta Nb21P Homo sapiens cDNA clone IMAGE:144798 3'
9349	20419	33539	15.04	8.0E-14	X98211.1	NT	H.sapiens DNA for endogenous retroviral like element
9400	22010	35180	3.69	8.0E-14	AA219316.1	EST_HUMAN	xq17c10.s1 Strategene fetal refina 637202 Homo sapiens cDNA clone IMAGE:623970 3'
11410	24059		1.72	8.0E-14	BE062558.1	EST_HUMAN	QV2-BT0258-261089-014-a01 BT0258 Homo sapiens cDNA
12302	24727	31056	2.48	8.0E-14	AI688118.1	EST_HUMAN	ws92h08.x1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:2326143 3'
1625	15574		4.77	7.0E-14	AW151873.1	EST_HUMAN	xf67e10.x1 NCI_CGAP_G04 Homo sapiens cDNA clone IMAGE:2623146 3' similar to contains MER10.12 MER10 repetitive element;
8818	21510		10.57	7.0E-14	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
358	13158	25797	14.14	6.0E-14	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (F-HIT) gene, exon 5
9722	22373	35572	2.6	6.0E-14	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (F-HIT) gene, exon 5
9722	22373	35573	2.6	6.0E-14	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (F-HIT) gene, exon 5
604	13382	26014	5.46	6.0E-14	Q63120	SWISSPROT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (F-HIT) gene, exon 5
4693	17716	30322	1.41	5.0E-14	AW073791.1	EST_HUMAN	CANALICULAR MULTISPECIFIC ORGANIC ANION TRANSPORTER 1 (MULTIDRUG RESISTANCE- ASSOCIATED PROTEIN 2) (CANALICULAR MULTIDRUG RESISTANCE PROTEIN)
5446	18245	31133	5.77	5.0E-14	P08647	SWISSPROT	x603b05.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2575185 3' similar to contains L1.12 L1 repetitive element;
1101	15560		2.18	4.0E-14	P04928	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
1870	14608	27319	5.9	4.0E-14	AJ007973.1	NT	S-ANTIGEN PROTEIN PRECURSOR
3735	16488		0.87	4.0E-14	AA046502.1	NT	Homo sapiens LGMD2B gene
4259	17000	29630	1.05	4.0E-14	N46328.1	EST_HUMAN	z607a06.l1 Soares_pregnant_uterus_NRHPU Homo sapiens cDNA clone IMAGE:487858 5'
7858	20553		0.59	4.0E-14	X87344.1	NT	yf73c12.s1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:279180 3' similar to contains L1.13 L1 repetitive element;
12626	25414		7.02	4.0E-14	AI886224.1	EST_HUMAN	H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DOB2 and RING8, 9, 13 and 14 genes
930	13697	26361	1.88	3.0E-14	X95466.1	NT	wn08c03.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2435332 3' similar to contains Alu repetitive element; R.novvegicus mRNA for CP62 protein

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4870	17597	30220	0.92	3.0E-14	AW265354.1	EST_HUMAN	xp45112.x1 NCL_CGAP_HN11 Homo sapiens cDNA clone IMAGE:2743343 3' similar to contains Alu repetitive element; contains element MIER8 repetitive element;
4873	17600	30222	0.97	3.0E-14	7656894	NT	Homo sapiens a disintegrin and metalloproteinase domain 29 (ADAM29), mRNA
6635	18397	32411	1.49	3.0E-14	A1420786.1	EST_HUMAN	ts91c12.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:2094070 3' similar to TR:000519 000519 FATTY ACID AMIDE HYDROLASE;
6635	18397	32412	1.49	3.0E-14	A1420786.1	EST_HUMAN	ts91c12.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:2094070 3' similar to TR:000519 000519 FATTY ACID AMIDE HYDROLASE;
6744	25099		0.62	3.0E-14	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
8986	21378	34522	0.87	3.0E-14	N42165.1	EST_HUMAN	y07b10.r1 Soares melanocyte 2N8HM Homo sapiens cDNA clone IMAGE:270523 5'
10914	23594	36840	1.28	3.0E-14	BE88016.1	EST_HUMAN	601511530F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
11201	17597	30220	7.19	3.0E-14	AW265354.1	EST_HUMAN	xp45112.x1 NCL_CGAP_HN11 Homo sapiens cDNA clone IMAGE:2743343 3' similar to contains Alu repetitive element; contains element MIER8 repetitive element;
12539	25282		1.68	3.0E-14	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
381	13188	25811	3.71	2.0E-14	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
381	13188	25812	3.71	2.0E-14	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
674	15548	26091	9.05	2.0E-14	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
2387	15108		1.49	2.0E-14	AW372888.1	EST_HUMAN	RC5-BT0377-091299-031-D12 BT0377 Homo sapiens cDNA
2467	15185		2.15	2.0E-14	7657928	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
2529	15245	27983	1.19	2.0E-14	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2542	15256		1.14	2.0E-14	BE222432.1	EST_HUMAN	h90g10.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3180738 3' similar to contains Alu repetitive element; contains OFR.11 OFR repetitive element;
2681	15390		0.95	2.0E-14	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
5437	18236	30950	0.8	2.0E-14	BF380661.1	EST_HUMAN	IL2-JT0072-240800-142-D07 UT0072 Homo sapiens cDNA
5533	18331	31236	0.92	2.0E-14	A1312351.1	EST_HUMAN	la78h01.x2 NCL_CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2050225 3' similar to contains L1.13 L1 repetitive element;
5634	18429	31342	3.42	2.0E-14	U01317.1	NT	Human beta globin region on chromosome 11
6784	18628		0.91	2.0E-14	BE000550.1	EST_HUMAN	RC3-BN0072-240200-011-a06 BN0072 Homo sapiens cDNA
6984	18677	32724	0.82	2.0E-14	4585709	NT	Homo sapiens a disintegrin and metalloproteinase domain 11 (ADAM11) mRNA
7185	19871	32945	1.25	2.0E-14	P56163	SWISSPROT	ZINC-FINGER PROTEIN NEURO-D4
7407	20084	33167	22.12	2.0E-14	BE158761.1	EST_HUMAN	IL2-HT0397-071299-024-D04 HT0397 Homo sapiens cDNA
7407	20084	33168	22.12	2.0E-14	BE158761.1	EST_HUMAN	IL2-HT0397-071299-024-D04 HT0397 Homo sapiens cDNA
9817	22468	35671	0.57	2.0E-14	A1978796.1	EST_HUMAN	wr59g10.x1 NCL_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2492034 3' similar to contains Alu repetitive element;
10317	22584	36181	0.53	2.0E-14	AV741648.1	EST_HUMAN	AV741648 CB Homo sapiens cDNA clone CBFBF04 5'

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10679	23370	36612	4.88	2.0E-14	AW139800.1	EST_HUMAN	U1-H-B11-adv-a-10-Q-U1.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718234 3'
11591	24190	37507	1.28	2.0E-14	AW083989.1	EST_HUMAN	xc36f02.x1 NCL_CGAP_Co20 Homo sapiens cDNA clone IMAGE:2586363 3' similar to contains MER1.13
12536	25284		2.28	2.0E-14	AF008191.1	NT	MER1 repetitive element;
1045	13804	26463	1.88	1.0E-14	AL163249.2	NT	Homo sapiens putative G8 protein (GR8) gene, complete cds
1385	14132	26805	6.41	1.0E-14	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C046
1385	14132	26806	6.41	1.0E-14	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
1994	14730	27452	12.44	1.0E-14	L44140.1	NT	Homo sapiens chromosome 21 segment HS21C088
2182	14911	27643	4.55	1.0E-14	AL163303.2	NT	Homo sapiens chromosome X region from filamin (FLN) gene to glucose-6-phosphate dehydrogenase (G6PD) gene, complete cds
2409	15130	27866	3.56	1.0E-14	AF001689.1	NT	Homo sapiens chromosome 21 segment HS21C103
2845	15711	28363	1.79	1.0E-14	P05227	SWISSPROT	Homo sapiens ribosomal protein L23A (RPL23A) gene, complete cds
3165	15928	28576	5.42	1.0E-14	BF335227.1	EST_HUMAN	HISTIDINE-RICH PROTEIN PRECURSOR (CLONE PFHRP-II)
3165	15928	28577	5.42	1.0E-14	BF335227.1	EST_HUMAN	RC2-CT0432-310700-013-a09_1 CT0432 Homo sapiens cDNA
3868	16618	29255	1.87	1.0E-14	AA682994.1	EST_HUMAN	RC2-CT0432-310700-013-a09_1 CT0432 Homo sapiens cDNA
4440	17176	29802	1.91	1.0E-14	AW275852.1	EST_HUMAN	ae89c12.s1 Sitratogene schloz brain S11 Homo sapiens cDNA clone IMAGE:971350 3'
5719	18511	31432	2.42	1.0E-14	AF126145.1	NT	xq39h10.x1 NCL_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2753059 3'
6576	25095	32351	11.5	1.0E-14	11437150	NT	Bos taurus xenobiotic/medium-chain fatty acid:CoA ligase form XL-III mRNA, nuclear mRNA encoding mitochondrial protein, complete cds
6576	25095	32352	11.5	1.0E-14	11437150	NT	Homo sapiens promilin (mouse)-like 1 (PROML1), mRNA
11818	15928	28576	3.05	1.0E-14	BF335227.1	EST_HUMAN	Homo sapiens promilin (mouse)-like 1 (PROML1), mRNA
11818	15928	28577	3.05	1.0E-14	BF335227.1	EST_HUMAN	RC2-CT0432-310700-013-a09_1 CT0432 Homo sapiens cDNA
1570	14317	27002	2.08	9.0E-15	7427522	NT	RC2-CT0432-310700-013-a09_1 CT0432 Homo sapiens cDNA
2170	14899		1.43	9.0E-15	AF198779.1	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
7395	20074	33152	4.51	9.0E-15	P21416	SWISSPROT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel α
7915	20610	33740	1.08	9.0E-15	BE903559.1	EST_HUMAN	GAG POLYPROTEIN [CONTAINS: CORE PROTEINS P15, P12, P30, P10]
12718	24991		2.36	9.0E-15	AL163247.2	NT	60167750F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3960166 5'
2814	13263		0.91	8.0E-15	BE261482.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C047
7081	19771	32838	1.14	7.0E-15	BF035327.1	EST_HUMAN	601148632F1 NIH_MGC 19 Homo sapiens cDNA clone IMAGE:3164023 5'
10334	22981		3.07	7.0E-15	AW241958.1	EST_HUMAN	6011458531F1 NIH_MGC 86 Homo sapiens cDNA clone IMAGE:3862086 5'
973	13738	26403	8.64	6.0E-15	AJ271738.1	NT	xn77d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2700483 3' similar to contains THR.t2 THR repetitive element;
						NT	Homo sapiens Xq pseudautosomal region; segment 2/2

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5829	18618	31549	1.02	6.0E-15	X73462.1	NT	O. aries mRNA for hair keratin cysteine-rich protein
5829	18618	31550	1.02	6.0E-15	X73462.1	NT	O. aries mRNA for hair keratin cysteine-rich protein
401	13186	25834	6.63	5.0E-15	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
2764	15469	28212	1.38	5.0E-15	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, Rofet gene, and sodium phosphate transporter (NPT3) gene, complete cds
3481	16217		1.03	5.0E-15	AW286817.1	EST_HUMAN	UIH-BW0-ajb-g-10-0-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2731219.3
10574	23289		2.4	5.0E-15	AV730056.1	EST_HUMAN	AV730056 HTF Homo sapiens cDNA clone HTFAVE06.5
418	12828	25442	2.85	4.0E-15	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
6687	18332	32339	0.76	4.0E-15	AB007970.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0501
10894	20392	33505	3.08	4.0E-15	AJ130894.1	NT	Homo sapiens mRNA for transcription factor
10894	20392	33506	3.08	4.0E-15	AJ130894.1	NT	Homo sapiens mRNA for transcription factor
4192	18633		7.06	3.0E-15	N89452.1	EST_HUMAN	LY1142F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone LY1142.5 similar to ANF(CARDIODILATIN)
4872	17899		0.79	3.0E-15	P92485	SWISSPROT	NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 5
6716	18631		1.33	3.0E-15	Q84825	SWISSPROT	GLUTATHIONE PEROXIDASE RY2D1 PRECURSOR (ODORANT-METABOLIZING PROTEIN RY2D1)
7179	19885	32937	2.9	3.0E-15	M27685.1	NT	Mus musculus ultra high sulfur keratin gene, complete cds
7179	19885	32938	2.9	3.0E-15	M27685.1	NT	Mus musculus ultra high sulfur keratin gene, complete cds
9825	22476		2.51	3.0E-15	AA807128.1	EST_HUMAN	cc38e07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1351764.3 similar to contains MER19.t1 MER19 repetitive element ;
10694	23385	36825	2.47	3.0E-15	AB026888.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
12310	26316		1.81	3.0E-15	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
12814	25058		1.35	3.0E-15	AW877214.1	EST_HUMAN	GM4-PT0034-180200-506-e01 PT0034 Homo sapiens cDNA
243	13052	25692	3.6	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
359	13157	25788	3.99	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
359	13157	25789	3.99	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3500	16258	28910	0.71	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3500	16258	28911	0.71	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced

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4049	16794	29423	1.08	2.0E-15	AW238499.1	EST_HUMAN	xp26h01.x1 NCI_CGAP_HN10 Homo sapiens cDNA clone IMAGE:2741521 3' similar to contains L1; B L1 repetitive element;
4680	17315		2.46	2.0E-15	AI806335.1	EST_HUMAN	wf07f06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2349923 3' similar to TR:Q61043 Q61043 NINEIN.
6089	18887	31833	0.88	2.0E-15	BE562362.1	EST_HUMAN	601344253F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677268 5'
6089	18887	31834	0.88	2.0E-15	BE562362.1	EST_HUMAN	601344253F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677268 5'
7014	18706		1.5	2.0E-15	AJ400877.1	NT	Homo sapiens ASC1.3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene
7171	19857	32928	2.62	2.0E-15	AA704195.1	EST_HUMAN	z77e03.s1 Soares_fetal_liver_apoen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:480924 3'
7284	19977	33054	5.18	2.0E-15	W05004.1	EST_HUMAN	za78d10.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:288675 5' similar to WP:F44F4.8 CE02227 TRANSPOSASE;
8804	21486	34642	2.86	2.0E-15	D14547.1	NT	Human DNA, SINE repetitive element
8871	21681	34811	1	2.0E-15	AA397768.1	EST_HUMAN	z177g08.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728414 5'
8871	21681	34812	1	2.0E-15	AA397768.1	EST_HUMAN	z177g08.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728414 5'
9304	21971	35145	1.23	2.0E-15	AW379465.1	EST_HUMAN	CM0-HT0244-201099-078-412 HT0244 Homo sapiens cDNA
9304	21971	35146	1.23	2.0E-15	AW379465.1	EST_HUMAN	CM0-HT0244-201099-078-412 HT0244 Homo sapiens cDNA
10742	23429		5.66	2.0E-15	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
12451	25338		2.04	2.0E-15	U82828.1	NT	Homo sapiens ataxia telangiectasia (ATM) gene, complete cds
12653	16256	28910	3.34	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
12653	16256	28911	3.34	2.0E-15	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
2777	15482		2.39	1.0E-15	AI689984.1	EST_HUMAN	bx26h05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2270745 3' similar to TR:Q13539 Q13539 MARINER TRANSPOSASE;
3011	15777	28427	1.35	1.0E-15	BE043584.1	EST_HUMAN	hk40e02.y1 NCI_CGAP_Ov34 Homo sapiens cDNA clone IMAGE:2999162 5'
3139	15903	28548	1.29	1.0E-15	P08547	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
5138	17858		0.87	1.0E-15	AW021431.1	EST_HUMAN	dl23e06.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2484202 5'
6279	19052	32030	1.74	1.0E-15	T86763.1	EST_HUMAN	ye40e10.s1 Soares_fetal_liver_apoen_1NFLS Homo sapiens cDNA clone IMAGE:120294 3' similar to contains MER6 repetitive element;
6909	19647		2.12	1.0E-15	BE074217.1	EST_HUMAN	QV3-BT0569-270100-074-g05 BT0569 Homo sapiens cDNA
8131	20825	33931	0.86	1.0E-15	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
8319	21012	34149	4.56	1.0E-15	AI200876.1	EST_HUMAN	qf68h08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755227 3'
8319	21012	34150	4.56	1.0E-15	AI200876.1	EST_HUMAN	qf68h08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755227 3'
8937	21628	34770	0.67	1.0E-15	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007

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8940	21631	34774	1.78	1.0E-15	4507208	NT	Homo sapiens spermidine synthase (SRM) mRNA
9148	21877	35042	0.87	1.0E-15	Q39575	SWISSPROT	DYNEIN GAMMA CHAIN, FLAGELLAR OUTER ARM
9532	22185	35370	0.94	1.0E-15	AA954853.1	EST_HUMAN	ch37c03.s1 NCL CGAP_Kid6 Homo sapiens cDNA clone IMAGE:1459972 3' similar to contains L1.13 L1 repetitive element:
10720	23409	36651	3.6	1.0E-15	AF044083.1	NT	Homo sapiens major histocompatibility locus class III region
12722	25148	30898	4.72	1.0E-15	AI783944.1	EST_HUMAN	tr31c05.x1 NCL CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2218912 3' similar to contains Alu repetitive element
4469	17204	29830	0.98	9.0E-16	4503188	NT	Homo sapiens cut (Drosophila)-like 1 (CCAAAT displacement protein) (CUTL1) mRNA
10915	23595	36841	2.04	9.0E-16	F08688.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c-23f05
11698	24291	37615	1.46	9.0E-16	AI244341.1	EST_HUMAN	q76a02.x1 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.13 MER10 repetitive element:
11698	24291	37618	1.46	9.0E-16	AI244341.1	EST_HUMAN	q76a02.x1 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.13 MER10 repetitive element:
5615	18411	31324	0.71	7.0E-16	4885120	NT	Homo sapiens chemokine (C-C motif) receptor 8 (CCR8) mRNA
7241	19928	33001	1.49	7.0E-16	O88807	SWISSPROT	PROTEIN-ARGININE DEIMINASE TYPE IV (PEPTIDYLARGININE DEIMINASE IV) (PAD-R4)
7241	19928	33002	1.49	7.0E-16	O88807	SWISSPROT	PROTEIN-ARGININE DEIMINASE TYPE IV (PEPTIDYLARGININE DEIMINASE IV) (PAD-R4)
12675	25237		1.98	7.0E-16	T94140.1	EST_HUMAN	ye28c12.t1 Stragene lung (4637210) Homo sapiens cDNA clone IMAGE:119082 5'
2137	14967		8.38	6.0E-16	AW972811.1	EST_HUMAN	EST384702 MAGE resequences, MAGL Homo sapiens cDNA
1476	14223	26909	1.08	5.0E-16	AJ251154.1	NT	Mus musculus olfactory receptor cluster, OR37A, OR37B, OR37C, OR37E genes and OR37D pseudogene
2887	16398	28134	2.17	5.0E-16	AA992176.1	EST_HUMAN	cd80c04.s1 Soares total_fetus_Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:1623078 3' similar to contains element L1 repetitive element:
9954	22002	35806	0.54	5.0E-16	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
11504	24105	37418	3.6	5.0E-16	BF217968.1	EST_HUMAN	801885734F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4104128 5'
12757	25018		14.19	5.0E-16	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
2233	14961		1.81	4.0E-16	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
2378	15100	27839	1.77	4.0E-16	AW797188.1	EST_HUMAN	QV1-UM0038-200300-115-g02 UM0038 Homo sapiens cDNA
2378	15100	27840	1.77	4.0E-16	AW797188.1	EST_HUMAN	QV1-UM0038-200300-115-g02 UM0038 Homo sapiens cDNA
3450	16206	29856	3.58	4.0E-16	Q16633	SWISSPROT	MYELIN-OLIGODENDROCYTE GLYCOPROTEIN PRECURSOR
4121	18863	29489	5.02	4.0E-16	BE083875.1	EST_HUMAN	PM4-BT0650-010400-002-g09 BT0650 Homo sapiens cDNA
4121	18863	29490	5.02	4.0E-16	BE083875.1	EST_HUMAN	PM4-BT0650-010400-002-g09 BT0650 Homo sapiens cDNA
7612	20278	33386	46.62	4.0E-16	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9196	21866	35029	1.04	4.0E-16	11423191	NT	Homo sapiens hypothetical protein FLJ10024 (FLJ10024), mRNA
11182	23847	37133	1.51	4.0E-16	AV730030.1	EST_HUMAN	AV730030 HIT Homo sapiens cDNA clone HITFAWA03 5'
11851	24435	37778	1.44	4.0E-16	Q62632	SWISSPROT	FOLLISTATIN-RELATED PROTEIN PRECURSOR
12014	24547		2.04	4.0E-16	P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
12109	24605	31087	2.51	4.0E-16	6912459	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
130	12945	25589	2.03	3.0E-16	AW022862.1	EST_HUMAN	df45c01.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2486376 5'
130	12945	25590	2.03	3.0E-16	AW022862.1	EST_HUMAN	df45c01.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2486376 5'
453	13238		1.5	3.0E-16	AL046445.1	EST_HUMAN	DKFZp434P037.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434P037 5'
463	13248		1.5	3.0E-16	AF135446.1	NT	Homo sapiens TSX (TSX) pseudogene, exon 5
1435	14182	26867	1.38	3.0E-16	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
2975	15741	26388	3.76	3.0E-16	P03200	SWISSPROT	ENVELOPE GLYCOPROTEIN GP340 (MEMBRANE ANTIGEN) (MA) [CONTAINS: GLYCOPROTEIN GP220]
3913	16663	29304	19.63	3.0E-16	T08169.1	EST_HUMAN	EST06060 Infant Brain, Bento Soares Homo sapiens cDNA clone HIBBA13 5' end
3939	16689		0.95	3.0E-16	U03887.1	NT	Human BXP20 gene
5196	18004		0.99	3.0E-16	AA077225.1	EST_HUMAN	7B10F02 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B10F02
5529	18327	31230	1.79	3.0E-16	AF003526.1	NT	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
8556	21248	34387	4.26	3.0E-16	AK02836.1	EST_HUMAN	em88h05.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1884185 3' similar to contains
9790	22441		0.89	3.0E-16	BF690617.1	EST_HUMAN	THR.b2 THR repetitive element ;
10019	22867	35883	5.57	3.0E-16	L78810.1	NT	602246538F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332032 5'
951	13717		1.2	2.0E-16	AL163279.2	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
2385	15106		0.91	2.0E-16	AA621761.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C079
2694	15403		1.06	2.0E-16	J03061.1	NT	af06c04.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1030855 3'
4157	16897	29526	1.16	2.0E-16	X89211.1	NT	Human SSANV-related endogenous retroviral LTR-like element
							H.sapiens DNA for endogenous retroviral like element
4447	17183	29607	0.96	2.0E-16	A1208733.1	EST_HUMAN	qg50f03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839197 3' similar to contains MER29.13
5104	17822	30438	0.79	2.0E-16	BE081176.1	EST_HUMAN	MER29 repetitive element ;
6642	18404	32419	0.99	2.0E-16	Q31125	SWISSPROT	RC3-BT0046-131199-003-H12 BT0046 Homo sapiens cDNA
							HISTIDINE-RICH PROTEIN KE4
7615	20281	33389	0.75	2.0E-16	A1470723.1	EST_HUMAN	f16b11.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141708 3' similar to contains element
							MER33 repetitive element ;
7867	20562	33689	2.14	2.0E-16	A1732837.1	EST_HUMAN	nz47f06.x5 NCI_CGAP_P12 Homo sapiens cDNA clone IMAGE:1290947 similar to TR:O54849 O54849
8058	20752	33883	0.57	2.0E-16	BE858026.1	EST_HUMAN	HYPO THEtical 42.9 KD PROTEIN. [2] TR:O08905 ;contains MER7.1 MER7 repetitive element ;
							7182h09.x1 NCI_CGAP_P126 Homo sapiens cDNA clone IMAGE:3303521 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8058	20752	33884	0.57	2.0E-16	BE858028.1	EST_HUMAN	782d09.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:3303521 3'
8425	21118	34256	0.81	2.0E-16	AW877214.1	EST_HUMAN	CM4-PT0034-180200-506-401 PT0034 Homo sapiens cDNA
8425	21118	34257	0.81	2.0E-16	AW877214.1	EST_HUMAN	CM4-PT0034-180200-506-401 PT0034 Homo sapiens cDNA
180	12992	25630	1.84	1.0E-16	AF200719.1	NT	Homo sapiens pituitary tumor transforming gene protein (PTTG) gene, complete cds
373	13198		29.86	1.0E-16	AA628592.1	EST_HUMAN	af39g11.s1 Soares_tetral_fetus_Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:1034084 3' similar to contains OFR.12 OFR repetitive element ;
1863	14698	27414	2.37	1.0E-16	BF327942.1	EST_HUMAN	QV0-BN0148-070700-293-410 BN0148 Homo sapiens cDNA
5635	18430	31343	0.75	1.0E-16	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
6341	19111		27.85	1.0E-16	U45983.1	NT	Homo sapiens CCR8 chemokine receptor (CMKBR8) gene, complete cds
6479	19246	32246	3.39	1.0E-16	Q02779	SWISSPROT	MITOGEN-ACTIVATED PROTEIN KINASE KINASE 10 (MIXED LINEAGE KINASE 2) (PROTEIN KINASE MST)
7453	19111		7.15	1.0E-16	U45983.1	NT	Homo sapiens CCR8 chemokine receptor (CMKBR8) gene, complete cds
9183	21853	35018	1.07	1.0E-16	AW875851.1	EST_HUMAN	QV2-PT0012-040400-124-405 PT0012 Homo sapiens cDNA
3722	16475	29112	2.11	9.0E-17	AW900048.1	EST_HUMAN	CM1-NN1003-200300-153-401 NN1003 Homo sapiens cDNA
6624	19386		2.2	9.0E-17	AI392984.1	EST_HUMAN	tg22c11.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2109524 3' similar to contains MER28.12 MER28 repetitive element ;
8007	20702		4.75	9.0E-17	AW150257.1	EST_HUMAN	xg49g12.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2630950 3' similar to contains OFR.12 OFR repetitive element ;
10124	22772		2.47	9.0E-17	AF200719.1	NT	Homo sapiens pituitary tumor transforming gene protein (PTTG) gene, complete cds
987	13757		1.77	8.0E-17	AW880701.1	EST_HUMAN	QV0-OT0032-060300-155-401 OT0032 Homo sapiens cDNA
3872	16622		0.87	8.0E-17	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
5496	25069	31183	3.7	8.0E-17	BE172081.1	EST_HUMAN	MRO-HT0559-060300-003-404 HT0559 Homo sapiens cDNA
7175	19681		1.94	8.0E-17	AV730759.1	EST_HUMAN	AV730759 HTF Homo sapiens cDNA clone HTFAQB07 5'
1441	14188		3.44	7.0E-17	6753097	NT	Mus musculus apolipoprotein B editing complex 2 (ApoBec2), mRNA
5240	18046		3.3	7.0E-17	AF216650.1	NT	Homo sapiens putative MTAP (MTAP) mRNA, partial cds, alternatively spliced
6688	19351	32365	8.05	7.0E-17	AF220843.1	NT	Mus musculus WNT-2 gene, partial cds; putative ankyrin-related protein and cystic fibrosis transmembrane conductance regulator (CFTR) genes, section 1 of 2 of the complete cds; and unknown gene
198	13011	25653	8	6.0E-17	AW988389.1	EST_HUMAN	RC1-HN0003-220300-021-504 HN0003 Homo sapiens cDNA
6221	18995	31971	1.64	8.0E-17	AW662772.1	EST_HUMAN	h81d04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978095 3' similar to contains L1.12 L1 repetitive element ;
10190	22838	36053	0.46	6.0E-17	P20138	SWISSPROT	MYELOID CELL SURFACE ANTIGEN CD33 PRECURSOR (GP67)
412	12823	25436	2.97	5.0E-17	T64110.1	EST_HUMAN	yo06h06.l1 Stratiogene lung (#837210) Homo sapiens cDNA clone IMAGE:79839 5'
7486	20158	33250	2.09	5.0E-17	T81043.1	EST_HUMAN	yc22d04.l1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109327 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3628	16378	29020	0.69	4.0E-17	AA643697.1	EST_HUMAN	in96a05.s1 NCI_CGAP_Co10 Homo sapiens cDNA clone IMAGE:1058528 3'
9282	22016	35184	1.07	4.0E-17	AW129165.1	EST_HUMAN	x220a04.x1 NCI_CGAP_Kd8 Homo sapiens cDNA clone IMAGE:2818622 3' similar to contains Alu repetitive element; contains MER19.b1 MER19 repetitive element;
11475	24076	37386	2.64	4.0E-17	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12027	24555		1.75	4.0E-17	AI073546.1	EST_HUMAN	ov45a04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1640286 3' similar to TR:Q16530
1477	14224		1.14	3.0E-17	D14547.1	NT	Q16530 PMS3 MRNA ; contains MER10.12 MER10 repetitive element ;
2091	14822	27554	1.85	3.0E-17	AW119123.1	EST_HUMAN	Human DNA, SINE repetitive element
3188	15951		1.18	3.0E-17	P35410	SWISSPROT	xd89c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2004784 3'
3633	16386	29026	1.34	3.0E-17	BE326522.1	EST_HUMAN	MAS-RELATED G PROTEIN-COUPLED RECEPTOR MRG
3633	16386	29027	1.34	3.0E-17	BE326522.1	EST_HUMAN	hw05b04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3181989 3'
4970	17695		1.89	3.0E-17	BF511266.1	EST_HUMAN	hw05b04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3181989 3'
8166	20860	33992	5.16	3.0E-17	N68451.1	EST_HUMAN	UJ-H-B14-aq-c-06-Q-J1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085043 3'
9601	22254	35439	6.58	3.0E-17	AB026898.1	NT	zaf14b02.s1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:292491 3' similar to contains PTR5.13 PTR5 repetitive element ;
10279	22927	36140	0.64	3.0E-17	BF327012.1	EST_HUMAN	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
10279	22927	36141	0.64	3.0E-17	BF327012.1	EST_HUMAN	QV3-BN0047-270700-283-a12 BN0047 Homo sapiens cDNA
11894	24532		3.65	3.0E-17	11417968	NT	QV3-BN0047-270700-283-a12 BN0047 Homo sapiens cDNA
12764	25023		1.44	3.0E-17	AV720204.1	EST_HUMAN	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
343	13144	25782	3	2.0E-17	AI270080.1	EST_HUMAN	AV720204 GLC Homo sapiens cDNA clone GLC01F08 5'
344	13144	25782	2.17	2.0E-17	AI270080.1	EST_HUMAN	q163a06.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:1959922 3' similar to contains Alu repetitive element;
987	13733		1.84	2.0E-17	AA722932.1	EST_HUMAN	q163a06.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:1959922 3' similar to contains Alu repetitive element;
2448	15167	27904	2.21	2.0E-17	Q28983	SWISSPROT	zg81d04.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:399751 3'
2448	15167	27905	2.21	2.0E-17	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
2930	15896	28343	6.64	2.0E-17	P12038	SWISSPROT	ZONADHESIN PRECURSOR
5282	18087	30745	1.88	2.0E-17	M27685.1	NT	NEUROFILAMENT TRIPLET H PROTEIN (200 KDA NEUROFILAMENT PROTEIN) (NEUROFILAMENT HEAVY POLYPEPTIDE) (NF-H)
5282	18087	30746	1.88	2.0E-17	M27685.1	NT	Mus musculus ultra high sulfur keratin gene, complete cds
6171	18948		2.04	2.0E-17	AF055068.1	NT	Mus musculus ultra high sulfur keratin gene, complete cds
6398	19167		1.16	2.0E-17	AL134881.1	EST_HUMAN	Homo sapiens MHC class 1 region
7882	20677	33802	1.12	2.0E-17	Q95156	SWISSPROT	DKFZp762J0810.1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762J0810 5'
							OLFACTORY RECEPTOR-LIKE PROTEIN OLF3

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8356	21049	34188	1	2.0E-17	AA300640.1	EST_HUMAN	EST13504 Testis tumor Homo sapiens cDNA 5' end similar to glycogenin
8768	22420	35628	2.81	2.0E-17	BE298888.1	EST_HUMAN	600944690F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2880815 5'
9804	22455	35657	3.22	2.0E-17	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
9804	22455	35658	3.22	2.0E-17	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
10159	22807	36025	4.82	2.0E-17	D13391.1	NT	Human CYP19 gene for aromatase cytochrome P-450, promoter region (containing two cis-acting transcriptional regulatory elements)
10278	22826	36138	0.73	2.0E-17	P98063	SWISSPROT	BONE MORPHOGENETIC PROTEIN 1 PRECURSOR (BMP-1)
10278	22826	36139	0.73	2.0E-17	P98063	SWISSPROT	BONE MORPHOGENETIC PROTEIN 1 PRECURSOR (BMP-1)
10307	22954	36169	0.49	2.0E-17	AI798902.1	EST_HUMAN	wes4b04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348719 3'
10307	22954	36170	0.49	2.0E-17	AI798902.1	EST_HUMAN	wes4b04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348719 3'
733	13507	26184	3.68	1.0E-17	P08183	SWISSPROT	MULTIDRUG RESISTANCE PROTEIN 1 (P-GLYCOPROTEIN 1)
1703	14446		1.26	1.0E-17	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
1761	14503	27204	2.73	1.0E-17	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
2109	14840	27571	2.35	1.0E-17	P02481	SWISSPROT	COLLAGEN ALPHA 1(III) CHAIN PRECURSOR
2335	15059	27795	2.00	1.0E-17	U79410.1	NT	Homo sapiens thrombospondin 2 (THBS2) gene, promoter region and exons 1A and 1B
3554	16309		1.3	1.0E-17	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
4118	18858		7.37	1.0E-17	R08942.1	EST_HUMAN	yf30e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:128388 5'
6368	19136		0.69	1.0E-17	AW468468.1	EST_HUMAN	he38e05.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2921312 3' similar to contains Alu repetitive element; contains LTR8.1 LTR8 repetitive element;
6555	19320	32327	2.04	1.0E-17	AI185842.1	EST_HUMAN	qe65b05.x1 Soares fetal lung NBHL19W Homo sapiens cDNA clone IMAGE:1743825 3'
6555	19320	32328	2.04	1.0E-17	AI185842.1	EST_HUMAN	qe65b05.x1 Soares fetal lung NBHL19W Homo sapiens cDNA clone IMAGE:1743825 3'
6989	19852	32730	0.93	1.0E-17	Q16831	SWISSPROT	URIDINE PHOSPHORYLASE (UDRPASE)
8490	21182	34324	1.33	1.0E-17	BE062744.1	EST_HUMAN	QV0-BT0263-101289-072-d07 BT0263 Homo sapiens cDNA
9907	22556	35751	0.88	1.0E-17	AW998538.1	EST_HUMAN	QV3-BN0048-220300-129-c10 BN0046 Homo sapiens cDNA
11394	24000	37304	2.09	1.0E-17	Q28824	SWISSPROT	MYOSIN LIGHT CHAIN KINASE, SMOOTH MUSCLE (MLCK) [CONTAINS: TELOKIN]
11732	24325	37849	2.47	1.0E-17	AA453647.1	EST_HUMAN	zc48f05.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:795489 3' similar to TR:G1263081
2474	15192	27932	0.95	9.0E-18	AA174078.1	EST_HUMAN	zp18g12.s1 Strategene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609862 3'
9398	22060		3.31	9.0E-18	AI472167.1	EST_HUMAN	ij86d03.x1 Soares_NSIF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2148389 3'
3768	16518	29156	1.52	8.0E-18	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
339	13140	25778	16.92	7.0E-18	AW316078.1	EST_HUMAN	xc10b04.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2837071 3' similar to gb:L20868 60S RIBOSOMAL PROTEIN L4 (HUMAN);

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
339	13140	25777	18.92	7.0E-18	AW316976.1	EST_HUMAN	xx10b04.x1 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2837071 3' similar to gb:L20868 60S
7343	20024	33100	1.33	7.0E-18	AW867542.1	EST_HUMAN	RIBOSOMAL PROTEIN L4 (HUMAN); RC3-OT0091-170300-011-403 OT0091 Homo sapiens cDNA
12492	13140	25776	3.41	7.0E-18	AW316976.1	EST_HUMAN	xx10b04.x1 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2837071 3' similar to gb:L20868 60S
12492	13140	25777	3.41	7.0E-18	AW316976.1	EST_HUMAN	RIBOSOMAL PROTEIN L4 (HUMAN); xx10b04.x1 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2837071 3' similar to gb:L20868 60S
3289	18050	28688	1	8.0E-18	X71791.2	NT	RIBOSOMAL PROTEIN L4 (HUMAN); Rattus norvegicus partial GdhPr-1 gene for glia-derived neurotrophin/protease nexin 1, enhancer region
4698	17432		3.02	6.0E-18	P52181	SWISSPROT	PROTEIN-GLUTAMINE GAMMA-GLUTAMYL TRANSFERASE (TISSUE TRANSGLUTAMINASE) (TGASE C) (TGC)
8148	20842		2.84	6.0E-18	11428155	NT	Homo sapiens similar to high-mobility group (nonhistone chromosomal) protein 4 (H. sapiens) (LOC63446), mRNA
8246	20940	34077	0.72	6.0E-18	AL183210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11079	23749	37024	1.61	6.0E-18	AL183246.2	NT	Homo sapiens chromosome 21 segment HS21C046
11300	23980	37280	1.74	6.0E-18	X87344.1	NT	H. sapiens DNA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14 genes
12241	24602	31076	3.29	6.0E-18	U87929.1	NT	Human acornitase hydrolase (AGO2) gene, exon 4
1125	13881	28541	21.7	5.0E-18	AI280214.1	EST_HUMAN	qmd5g11.x1 Soares_placenta_81c6weeks_2Nblp-8b9W Homo sapiens cDNA clone IMAGE:1893688 3' similar to contains Alu repetitive element
5047	17766	30384	0.98	6.0E-18	D61517.1	EST_HUMAN	HUM411F05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-411F05 5'
5191	17989	30622	1.2	5.0E-18	AF087913.1	NT	Human endogenous retrovirus HERV-P-T47D
8620	21312	34454	6.25	5.0E-18	BE143312.1	EST_HUMAN	MRO-HT0161-221099-002-506 HT0161 Homo sapiens cDNA
10899	23579	36828	3.47	5.0E-18	10242378	NT	Homo sapiens lymphocyte activation-associated protein (LOC51088), mRNA
10899	23579	36828	3.47	5.0E-18	10242378	NT	Homo sapiens lymphocyte activation-associated protein (LOC51088), mRNA
12388	24170		3.4	5.0E-18	AW867182.1	EST_HUMAN	MRI-SN0035-060400-001-g11 SN0035 Homo sapiens cDNA
12695	24978		4.18	5.0E-18	AV650547.1	EST_HUMAN	AV650547 GLC Homo sapiens cDNA clone GLOCGA02 3'
121	12339	25580	1.37	4.0E-18	BE044076.1	EST_HUMAN	ho38h04.x1 NCL CGAP_UH1 Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29 b3 MER29 repetitive element;
121	12339	25581	1.37	4.0E-18	BE044076.1	EST_HUMAN	ho38h04.x1 NCL CGAP_UH1 Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29 b3 MER29 repetitive element;
1711	14454	27153	1.19	4.0E-18	AA621814.1	EST_HUMAN	mq24f11.s1 NCL CGAP_Cot10 Homo sapiens cDNA clone IMAGE:1144845 3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
1882	14619		1.12	4.0E-18	AI738592.1	EST_HUMAN	wi33h08.x1 NCL CGAP_Cot16 Homo sapiens cDNA clone IMAGE:2392095 3'

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2199	14927	27662	1.33	4.0E-18	Q06430	SWISSPROT	N-ACETYLLACTOSAMINIDE BETA-1,6-N-ACETYLGLUCOSAMINYLTRANSFERASE (N-ACETYLLUCOSAMINYLTRANSFERASE) (L-BRANCHING ENZYME) (IGNT)
2198	14927	27663	1.33	4.0E-18	Q06430	SWISSPROT	N-ACETYLLACTOSAMINIDE BETA-1,6-N-ACETYLLUCOSAMINYLTRANSFERASE (N-ACETYLLUCOSAMINYLTRANSFERASE) (L-BRANCHING ENZYME) (IGNT)
3772	19524	29162	0.68	4.0E-18	A1581586.1	EST_HUMAN	ar83b06.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2173139 3' similar to contains Alu repetitive element;
5279	18084	30740	2.24	4.0E-18	A1017565.1	EST_HUMAN	cu23e06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627138 3'
5278	18084	30741	2.24	4.0E-18	A1017565.1	EST_HUMAN	cu23e06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627138 3'
7745	20441		0.63	4.0E-18	AA746811.1	EST_HUMAN	rx64e08.s1 NCL_CGAP_A1M1 Homo sapiens cDNA clone IMAGE:1206998 similar to contains L1.12 L1 repetitive element;
10927	23607	36898	8.76	4.0E-18	AA371807.1	EST_HUMAN	EST183633 Pituitary gland, subtracted (prolactin/growth hormone) II Homo sapiens cDNA 5' end similar to EST containing O family repeat
829	13509	28270	1.68	3.0E-18	AA814196.1	EST_HUMAN	cb23h11.s1 NCL_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1324581 3' similar to SW:RS5_HUMAN P46782 40S RIBOSOMAL PROTEIN S5.;
909	13676	26340	3.47	3.0E-18	BE088634.1	EST_HUMAN	CM0-BT0690-210300-298-g07 BT0690 Homo sapiens cDNA
3831	16681	29322	1.47	3.0E-18	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
6730	19584	32598	5.84	3.0E-18	BE001671.1	EST_HUMAN	PM0-BN0081-100300-001-b08 BN0081 Homo sapiens cDNA
10644	23526	36798	1.61	3.0E-18	BF218650.1	EST_HUMAN	601884856F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103652 5'
12497	24852		6.14	3.0E-18	AW022015.1	EST_HUMAN	df31h12.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2485126 5'
244	13053	25693	4.42	2.0E-18	AW836820.1	EST_HUMAN	QV1-LT0036-150200-070-e07 LT0036 Homo sapiens cDNA
1130	13886		62.93	2.0E-18	BE260087.1	EST_HUMAN	601114352F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356044 5'
5326	18128		3.19	2.0E-18	AA868610.1	EST_HUMAN	ak63e07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1406652 3' similar to TR:O14577
5419	18218	30927	3.68	2.0E-18	D14547.1	NT	O14577 BAC CLONE RG114A06 FROM T031, COMPLETE SEQUENCE.;
5419	18218	30928	3.68	2.0E-18	D14547.1	NT	Human DNA, SINE repetitive element
5788	18579		1.68	2.0E-18	BF347229.1	EST_HUMAN	Human DNA, SINE repetitive element
6073	18952	31817	0.77	2.0E-18	X60459.1	NT	602021184F1 NCL_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4156670 5'
6073	18952	31818	0.77	2.0E-18	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
6185	18962	31835	1.04	2.0E-18	BF352940.1	EST_HUMAN	Human IFNAR gene for interferon alpha/beta receptor
6226	19000	31977	5.18	2.0E-18	AW685853.1	EST_HUMAN	IL3-HT0618-220700-222-C12 HT0618 Homo sapiens cDNA
7336	20018	33096	0.81	2.0E-18	AA457619.1	EST_HUMAN	h84g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2876984 3' similar to contains MER19.12 MER19 repetitive element;
8047	20741	33873	0.47	2.0E-18	BE439524.1	EST_HUMAN	aa89d11.r1 Stratagene fetal retina 837202 Homo sapiens cDNA clone IMAGE:838485 5' similar to TR:O61634 G61634 POLYPEPTIDE PR77;
							HTM1-180F1 HTM1 Homo sapiens cDNA

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9947	22595	35798	1.86	2.0E-18	AW151673.1	EST_HUMAN	x67e10.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2623146 3' similar to contains MER10.12
9947	22595	35798	1.86	2.0E-18	AW151673.1	EST_HUMAN	MER10 repetitive element; x67e10.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2623146 3' similar to contains MER10.12
10894	23574	36824	2	2.0E-18	AW470791.1	EST_HUMAN	MER10 repetitive element; THR repetitive element; ha33d06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3
11736	24329	37653	3.91	2.0E-18	AW151298.1	EST_HUMAN	xq47e09.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2630728 3' similar to contains MER8.b2
12174	13886		1.45	2.0E-18	BE256097.1	EST_HUMAN	MER8 repetitive element; 601114352F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355044 5'
4382	17119		1.02	1.0E-18	T95406.1	EST_HUMAN	ye43g05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:120536 5' similar to contains L1 repetitive element;
5271	18077	30707	3.63	1.0E-18	AV653405.1	EST_HUMAN	L1 repetitive element; AV653405 GLC Homo sapiens cDNA clone GLCCKE11 3'
5483	18282	31180	2.94	1.0E-18	D00099.1	NT	Homo sapiens mRNA for Na,K-ATPase alpha-subunit, complete cds
5483	18282	31181	2.94	1.0E-18	D00099.1	NT	Homo sapiens mRNA for Na,K-ATPase alpha-subunit, complete cds
6363	19133	32128	1.53	1.0E-18	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
8341	21034	34171	1.43	1.0E-18	AI148288.1	EST_HUMAN	oz69d09.x1 Soares senescent fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1680593 3' similar to contains L1.t1 L1 repetitive element;
9789	22450	35663	4.22	1.0E-18	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
12130	24621	31092	4.23	1.0E-18	AF003529.1	NT	Homo sapiens glycican 3 (GPC3) gene, partial cds and flanking repeat regions
532	13316	25952	5.34	9.0E-19	AA281961.1	EST_HUMAN	z11d06.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.12
533	13316	25952	3.24	9.0E-19	AA281961.1	EST_HUMAN	z11d06.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.12
7747	20443	34419	4.47	9.0E-19	F08688.1	EST_HUMAN	MER19 repetitive element; HSC23F051 normalized Infant brain cDNA Homo sapiens cDNA clone c-23f05
8588	21280	34420	2.54	9.0E-19	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
8588	21280	34420	2.54	9.0E-19	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
11072	23742	37016	4.82	9.0E-19	AB032699.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
11801	13316	25952	1.88	9.0E-19	AA281961.1	EST_HUMAN	z11d06.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.12
1028	13786		1.25	8.0E-19	AW974902.1	EST_HUMAN	MER19 repetitive element;
4372	17110		1.04	8.0E-19	P08648	SWISSPROT	EST387007 MAGE reassessances, MAGN Homo sapiens cDNA
8048	20742	33874	0.92	8.0E-19	BE158636.1	EST_HUMAN	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
							MR0-HT0404-210200-001-g06 HT0404 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2242	14970	27708	1.51	7.0E-19	4758139	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 6 (RNA helicase, 54kD) (DDX6) mRNA
6384	19134	32129	2.34	7.0E-19	AF092090.1	NT	Rattus norvegicus cp151 mRNA, partial cds
7199	19885	32959	0.9	7.0E-19	P26444	SWISSPROT	BETA CRYSTALLIN A2
9911	22560	35758	0.51	7.0E-19	A1344951.1	EST_HUMAN	U01c08.x1 NCI CGAP J1228 Homo sapiens cDNA clone IMAGE:2052302 3'
12036	25307		2.05	7.0E-19	AA705684.1	EST_HUMAN	z160b01.s1 Soares_fetal_liver_spleen_1NLS_S1 Homo sapiens cDNA clone IMAGE:435145 3'
3761	18513		1.34	6.0E-19	AW852930.1	EST_HUMAN	PMO-CT0248-131089-001-q01 CT0248 Homo sapiens cDNA
4430	17168	29795	1.36	6.0E-19	P34986	SWISSPROT	OLFACTORY RECEPTOR 6 (M50)
4430	17166	29796	1.36	6.0E-19	P34986	SWISSPROT	OLFACTORY RECEPTOR 6 (M50)
4747	17479		1.3	6.0E-19	AJ21735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
4967	17692	30301	1.04	6.0E-19	AL120817.1	EST_HUMAN	DKFZb762F192 J1 762 (synonym: tme12) Homo sapiens cDNA clone DKFZb762F192 5'
5767	18558	31485	5.36	5.0E-19	Q00193	SWISSPROT	ZONA PELLUCIDA SPERM-BINDING PROTEIN B PRECURSOR (ZONA PELLUCIDA GLYCOPROTEIN ZP-X) (RC55)
10324	22971	36191	1.03	6.0E-19	AJ287699.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exon 14
11525	24125	37431	7.45	5.0E-19	AW183725.1	EST_HUMAN	x87b02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2884171 3' similar to contains element MSR1 repetitive element;
541	13324	25058	1.68	4.0E-19	AB007970.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0501
2899	15398	28136	1.02	4.0E-19	BF687362.1	EST_HUMAN	602130910F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4287674 5'
5311	18115	30773	0.97	4.0E-19	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
3833	16384	29219	1.04	3.0E-19	Q28997	SWISSPROT	BETA-2 ADRENERGIC RECEPTOR
3833	16384	29220	1.04	3.0E-19	Q28997	SWISSPROT	BETA-2 ADRENERGIC RECEPTOR
4263	16904	29622	0.99	3.0E-19	O43900	SWISSPROT	LIM-ONLY PROTEIN 8 (TRIPLE LIM DOMAIN PROTEIN 6)
4263	16904	29623	0.99	3.0E-19	O43900	SWISSPROT	LIM-ONLY PROTEIN 6 (TRIPLE LIM DOMAIN PROTEIN 6)
4413	17150	29777	1.12	3.0E-19	AV708136.1	EST_HUMAN	AV708136 ADC Homo sapiens cDNA clone ADCAMA11 5'
5198	18006		0.64	3.0E-19	AF223467.1	NT	Homo sapiens NPD008 protein (NPD008) mRNA, complete cds
7283	19966		2.79	3.0E-19	11432214	NT	Homo sapiens similar to aldo-keto reductase family 1, member B11 (aldose reductase-like) (H. sapiens) (LOC33222), mRNA
9359	20430	33548	1.15	3.0E-19	X89685.1	NT	M.musculus mRNA for TPCR33 protein
12284	24709		23.34	3.0E-19	AF165620.1	NT	Homo sapiens phorbol 1 protein (PBI) mRNA, complete cds
2565	15279	28017	21.33	2.0E-19	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4411	17148		1.03	2.0E-19	A1311783.1	EST_HUMAN	q091e02.x1 NCI CGAP K1d5 Homo sapiens cDNA clone IMAGE:1915898 3' similar to TR:Q96386 Q96386 POL/ENV GENE;
5963	18745	31706	0.57	2.0E-19	AV731382.1	EST_HUMAN	AV731382 HTF Homo sapiens cDNA clone HTFAZC06 5'

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7238	19923	32908	0.93	2.0E-19	7657286	NT	Mus musculus keratin-associated protein 9-1 (Krtap9-1), mRNA
8228	20922	34061	8.08	2.0E-19	AA012854.1	EST_HUMAN	ze34c09.r1 Soares retina N2b4f4R Homo sapiens cDNA clone IMAGE:360880 5'
9809	22460	35936	0.68	2.0E-19	Q95155	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN OLF2
11829	24413	37750	1.33	2.0E-19	BF330887.1	EST_HUMAN	RC3-BT0333-250800-114-f04 BT0333 Homo sapiens cDNA
11829	24413	37751	1.33	2.0E-19	BF330887.1	EST_HUMAN	RC3-BT0333-250800-114-f04 BT0333 Homo sapiens cDNA
469	13255		1.87	1.0E-19	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
2161	14891	27928	1.58	1.0E-19	H30795.1	EST_HUMAN	yo79g07.r1 Soares adult brain N2b4f4B55Y Homo sapiens cDNA clone IMAGE:184188 5' similar to contains
2723	15430		2.37	1.0E-19	D38044.1	NT	MER10 repetitive element ;
2851	15619		4.95	1.0E-19	4758977	NT	Human gene for Ah-receptor, exon 7-9
3396	16154	28806	1.2	1.0E-19	AA834667.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
5983	18764	31728	2.38	1.0E-19	U12186.1	NT	449b12.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1393631 3' similar to contains MER37.12
6114	25419		0.83	1.0E-19	AA595527.1	EST_HUMAN	MER37 repetitive element ;
7528	20199	33293	0.86	1.0E-19	U08813.1	NT	Oryctolagus cuniculus sodiumdicarboxylate cotransporter mRNA, partial cds
7528	20199	33294	0.86	1.0E-19	U08813.1	NT	nh22a03.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:953093 similar to contains L1.H L1
7695	25118		0.93	1.0E-19	AF200719.1	NT	repetitive element ;
8349	21042	34179	1.75	1.0E-19	M54657.1	NT	Oryctolagus cuniculus Na+/glucose cotransporter-related protein mRNA, complete cds
8640	21332		2.84	1.0E-19	T98920.1	EST_HUMAN	Oryctolagus cuniculus Na+/glucose cotransporter-related protein mRNA, complete cds
9849	22301		0.46	1.0E-19	U60822.1	NT	Homo sapiens pituitary tumor transforming gene protein (PTTG) gene, complete cds
10087	22735	35960	23.03	1.0E-19	AW812259.1	EST_HUMAN	Rabbit phosphorylase kinase beta subunit mRNA, complete cds
10097	22745	35960	1.46	1.0E-19	N44631.1	EST_HUMAN	ye72b02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123243 5' similar to contains
11780	24351	37983	1.55	1.0E-19	U93163.1	NT	OFR repetitive element ;
6549	19314	32319	2.56	8.0E-20	7657286	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
6549	19314	32320	2.56	8.0E-20	7657286	NT	RCO-ST0174-191099-031-b05 ST0174 Homo sapiens cDNA
7418	20095	33180	1.34	8.0E-20	A1221371.1	EST_HUMAN	yy31e09.r1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:272872 5'
7418	20095	33181	1.34	8.0E-20	A1221371.1	EST_HUMAN	Homo sapiens IMAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1
3270	16031	28982	1.41	7.0E-20	BF326453.1	EST_HUMAN	(MAGE-B1) genes, complete cds
6898	17972	30529	6.29	7.0E-20	AL138120.1	EST_HUMAN	Mus musculus keratin-associated protein 9-1 (Krtap9-1), mRNA
8394	21067	34222	12.48	7.0E-20	AA557657.1	EST_HUMAN	Mus musculus keratin-associated protein 9-1 (Krtap9-1), mRNA

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8394	21087	34223	12.48	7.0E-20	AA557657.1	EST_HUMAN	nl46c04.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043718 similar to contains MER29.b2
11714	24308		1.85	7.0E-20	6912833	NT	MER29 repetitive element;
3543	16298	28949	3.52	6.0E-20	P39188	SWISSPROT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
4239	16980	29605	3.33	6.0E-20	BE622434.1	EST_HUMAN	ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY
4556	17291		1.18	5.0E-20	AV725123.1	EST_HUMAN	601441231F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3916231 5'
7015	19707	32763	1.07	5.0E-20	AF075301.1	EST_HUMAN	AV725123 HTC Homo sapiens cDNA clone HTC8TA01 5'
7848	20541	33688	5.28	5.0E-20	W90525.1	EST_HUMAN	AF075301 Human fetal liver cDNA library Homo sapiens cDNA clone HA0250
7848	20541	33688	5.28	5.0E-20	W90525.1	EST_HUMAN	zh78d08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418191 3' similar to contains MER30.1f MER30 repetitive element;
8002	20897	33825	0.7	5.0E-20	BE165980.1	EST_HUMAN	zh78d08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418191 3' similar to contains MER30.1f MER30 repetitive element;
8734	21428	34572	2.54	5.0E-20	AB028174.1	NT	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
8734	21428	34573	2.54	5.0E-20	AB028174.1	NT	Mus musculus MMAN-g mRNA, complete cds
8345	20416		0.94	5.0E-20	O60809	SWISSPROT	Mus musculus MMAN-g mRNA, complete cds
1618	14363	27054	1.34	4.0E-20	AL163247.2	NT	HYPOTHETICAL PROTEIN DJ845024.1
5502	18359		0.8	4.0E-20	Q99890	SWISSPROT	Homo sapiens chromosome 21 segment HS21C047
7828	20521		5.15	4.0E-20	AI874352.1	EST_HUMAN	HISTONE H2B C (H2B/C)
10398	23042	36259	1.33	4.0E-20	AW937499.1	EST_HUMAN	tz64g03.x1 NCI_CGAP_Ov35 Homo sapiens cDNA clone IMAGE:2283396 3'
2135	14865	27595	1.02	3.0E-20	U03888.1	NT	QV3-DT0043-090200-080-c04 DT0043 Homo sapiens cDNA
4185	16926	29557	1.29	3.0E-20	P23273	SWISSPROT	Human BXP21 gene
4582	17317	29944	1.05	3.0E-20	AA037616.1	EST_HUMAN	OLFACTORY RECEPTOR-LIKE PROTEIN H4
8833	21525		2.95	3.0E-20	D14547.1	NT	z439b12.s1 Soares_pregnant_uterus_NihIPU Homo sapiens cDNA clone IMAGE:484895 3' similar to contains L1.13 L1 repetitive element;
10219	22867	36078	0.83	3.0E-20	BF185284.1	EST_HUMAN	Human DNA, SINE repetitive element
10561	23257		1.87	3.0E-20	P11369	SWISSPROT	601843661F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4064343 5'
11466	24097	37408	1.5	3.0E-20	A1284244.1	EST_HUMAN	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASE]
11466	24097	37409	1.5	3.0E-20	A1284244.1	EST_HUMAN	qf70d02.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1884803 3' similar to contains Alu repetitive element;
12051	24569	31118	2.65	3.0E-20	BE888422.1	EST_HUMAN	qf70d02.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1884803 3' similar to contains Alu repetitive element;
811	13582		3.12	2.0E-20	AW303868.1	EST_HUMAN	x24e10.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:3915522 5'
							601514180F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3915522 5'
							x24e10.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2761098 3' similar to SW:RS5_MOUSE
							P97461 40S RIBOSOMAL PROTEIN S5.;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1089	13847	26505	3.37	2.0E-20	AA516335.1	EST_HUMAN	ng68h09.s1 NCL_CGAP_Lip2 Homo sapiens cDNA clone IMAGE:940097 similar to TR:G1224066 G1224066 ORF2: FUNCTION UNKNOWN. ;
1089	13847	26506	3.37	2.0E-20	AA516335.1	EST_HUMAN	ng68h09.s1 NCL_CGAP_Lip2 Homo sapiens cDNA clone IMAGE:940097 similar to TR:G1224066 G1224066 ORF2: FUNCTION UNKNOWN. ;
2820	13582		2.38	2.0E-20	AW303888.1	EST_HUMAN	xr24e10.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2761068 3' similar to SW:RS5_MOUSE P67461 40S RIBOSOMAL PROTEIN S6. ;
4893	17820	30238	4.97	2.0E-20	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
4893	17820	30239	4.97	2.0E-20	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
5067	17786		5.98	2.0E-20	5174538	NT	Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1) mRNA
8017	20712	33943	0.81	2.0E-20	AA309457.1	EST_HUMAN	EST180328 Liver III Homo sapiens cDNA 5' end
9089	21778	34942	8.6	2.0E-20	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
9089	21778	34943	8.6	2.0E-20	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
12426	26141	30895	2.03	2.0E-20	H65371.1	EST_HUMAN	CHR220310 Chromosome 22 exon Homo sapiens cDNA clone G22_391 5'
12815	25057		1.39	2.0E-20	11437152	NT	Homo sapiens heparin-binding growth factor binding protein (HBP17), mRNA
2007	15525	27468	3.71	1.0E-20	AA281981.1	EST_HUMAN	zt11d08.r1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.12 MER19 repetitive element ;
4406	17143	29772	1	1.0E-20	BF115188.1	EST_HUMAN	hr84b06.x1 NCL_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:3135155 3' similar to contains L1.12 L1 repetitive element ;
6704	19538	32568	0.75	1.0E-20	AF049567.1	EST_HUMAN	AF049567 Human activated dendritic cell mRNA Homo sapiens cDNA clone GA05
9061	21750	34909	2.04	1.0E-20	11418491	NT	Homo sapiens Autosomal Highly Conserved Protein (AHCP), mRNA
11541	24141	37450	2.62	1.0E-20	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
12171	24951		1.73	1.0E-20	AA420493.1	EST_HUMAN	nc80g08.r1 NCL_CGAP_PT1 Homo sapiens cDNA clone IMAGE:745664 similar to contains L1.13 L1 repetitive element ;
2913	15679		0.98	9.0E-21	AJ003514.1	EST_HUMAN	AJ003514 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPIp12-8J21
11804	24469		2.62	9.0E-21	AW898189.1	EST_HUMAN	RC3-NN0088-090500-021-003 NN0088 Homo sapiens cDNA
8711	21403		2.15	8.0E-21	AW674891.1	EST_HUMAN	b630a02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2984714 5' similar to SW:NIAM_HUMAN O95169 NADH-UBIQUINONE OXIDOREDUCTASE ASH1 SUBUNIT PRECURSOR ;
11526	24128	37432	3.52	8.0E-21	AA890411.1	EST_HUMAN	cb71f08.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1336835 3'
12084	24679		4.49	8.0E-21	O21330	SWISSPROT	ATP SYNTHASE A CHAIN (PROTEIN 6)
2061	14793	27518	1.62	7.0E-21	P15800	SWISSPROT	LAMININ BETA-2 CHAIN PRECURSOR (S-LAMININ) (LAMININ CHAIN B3)
2061	14793	27519	1.62	7.0E-21	P15800	SWISSPROT	LAMININ BETA-2 CHAIN PRECURSOR (S-LAMININ) (LAMININ CHAIN B3)
3899	16442	29083	0.69	7.0E-21	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4229	19969		5.58	7.0E-21	AA046502.1	EST_HUMAN	zk67a06.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487858 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6340	19110	32100	0.79	7.0E-21	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
8287	20981	34121	1.53	7.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
8576	21268	34407	10.78	7.0E-21	D14718.1	NT	Human chromosomal protein HM/G1 related gene
10013	22661	35877	0.86	7.0E-21	AW856922.1	EST_HUMAN	RC0-CT0301-271199-031-F03 CT0301 Homo sapiens cDNA
10594	23288	36525	2.19	7.0E-21	AA723404.1	EST_HUMAN	zq73403.s1 Scores_fetal_heart_NbHH10W Homo sapiens cDNA clone IMAGE:398981 3' similar to gb:U14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN); contains THR13 OFR repetitive element ;
11234	23897	37184	1.75	7.0E-21	7706668	NT	Homo sapiens PTD013 protein (PTD013), mRNA
4083	16827	28454	0.83	6.0E-21	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
9034	21724		0.6	6.0E-21	BE162737.1	EST_HUMAN	PM1-HT0454-080100-002-h09 HT0454 Homo sapiens cDNA
903	13670	26334	0.7	5.0E-21	5802031	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
4330	17059	29607	2.91	5.0E-21	BE968839.1	EST_HUMAN	601649871F1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3933880 5'
4749	17481	30112	5.56	5.0E-21	4985474	NT	Homo sapiens melanoma antigen, family C, 1 (MAGEC1), mRNA
6665	19582		0.9	5.0E-21	AW440884.1	EST_HUMAN	he05e10.x1 NCL_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2918154 3'
6917	19654	32700	0.86	5.0E-21	BE856505.1	EST_HUMAN	783d11.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:3303573 3' similar to contains OFR.11 OFR repetitive element ;
10474	23120	36349	0.44	5.0E-21	Q91690	SWISSPROT	ZINC FINGER PROTEIN GLI1 (GLI-1)
10474	23120	36350	0.44	5.0E-21	Q91690	SWISSPROT	ZINC FINGER PROTEIN GLI1 (GLI-1)
11986	24527		2.83	5.0E-21	AA393574.1	EST_HUMAN	z172c04.r1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:727878 5'
1727	14489	27168	1.81	4.0E-21	AA970713.1	EST_HUMAN	cc86e08.s1 NCL_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1573094 3' similar to TR:Q16530 Q16530 PMS3 MRNA ; contains OFR.11 OFR repetitive element ;
6772	19516	32544	3.27	4.0E-21	AB019576.1	NT	Rattus norvegicus mRNA for rTIM, complete cds
9680	22332	35527	0.63	4.0E-21	U91328.1	NT	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, Rofet gene, and sodium phosphate transporter (NPT3) gene, complete cds
9705	22356	35552	0.7	4.0E-21	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
1829	14588	27280	0.94	3.0E-21	AA218891.1	EST_HUMAN	zq15d06.s1 Stratiene fetal retina 937202 Homo sapiens cDNA clone IMAGE:629771 3'
2272	14998	27736	1.24	3.0E-21	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3078	15943	28485	4.31	3.0E-21	AJ007973.1	NT	Homo sapiens LGMD2B gene
5412	18211	30919	0.68	3.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
5412	18211	30920	0.68	3.0E-21	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5652	18447		0.65	3.0E-21	AV681044.1	EST_HUMAN	AV681044 GLC Homo sapiens cDNA clone GLC0A10.3'
6086	18904		2.3	3.0E-21	BF184739.1	EST_HUMAN	601844465F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4094945 5'
6669	19451	32469	7.69	3.0E-21	BF381083.1	EST_HUMAN	RC1-OT0083-100800-019-g08 OT0083 Homo sapiens cDNA
9592	22245	35429	1.15	3.0E-21	AW897760.1	EST_HUMAN	CM1-NN0063-280400-203-h08 NN0063 Homo sapiens cDNA
12533	25327	30714	2.88	3.0E-21	AL163213.2	NT	Homo sapiens chromosome 21 segment HS21C013
141	12956		17.18	2.0E-21	BE163247.1	EST_HUMAN	QV3-HT0458-170200-090-g12 HT0458 Homo sapiens cDNA
914	13681	26342	1.85	2.0E-21	AB007857.2	NT	Homo sapiens mRNA for KIAA0397 protein, partial cds
914	13681	26343	1.85	2.0E-21	AB007857.2	NT	Homo sapiens mRNA for KIAA0397 protein, partial cds
1192	13944		2.75	2.0E-21	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA
2644	15354	28098	1.98	2.0E-21	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
2644	15354	28099	1.98	2.0E-21	Q28983	SWISSPROT	ZONADHESIN PRECURSOR
5396	18196	30690	1.64	2.0E-21	A624582.1	EST_HUMAN	ts30f03.x1 NCL_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2230109 3' similar to TR:Q99854 Q99854
5489	18288	31184	0.68	2.0E-21	AA027211.1	EST_HUMAN	HYPOTHETICAL 61.1 KD PROTEIN;
5489	18288	31185	0.68	2.0E-21	AA027211.1	EST_HUMAN	z897a12.r1 Soares_fetal_heart_NbH19W Homo sapiens cDNA clone IMAGE:366910 5'
8170	20864	33996	0.5	2.0E-21	AJ010770.1	NT	z897a12.r1 Soares_fetal_heart_NbH19W Homo sapiens cDNA clone IMAGE:366910 5'
8261	20955	34094	6.16	2.0E-21	BE141785.1	EST_HUMAN	Homo sapiens hyperion gene, exons 1-60
8722	21414	34557	3.74	2.0E-21	AU136779.1	EST_HUMAN	QV0-HT0103-091199-050-g11 HT0103 Homo sapiens cDNA
10891	23665		1.55	2.0E-21	BE350127.1	EST_HUMAN	AU136779 PLACE1 Homo sapiens cDNA clone PLACE1005052 5'
11289	23950	37246	1.3	2.0E-21	BE973828.1	EST_HUMAN	h09g01.x1 NCL_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146266 3' similar to contains MER29.b3
11289	23950	37247	1.3	2.0E-21	BE973828.1	EST_HUMAN	MER29 repetitive element;
12272	24712		9.87	2.0E-21	AF176815.1	NT	601880636F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3951008 5'
1233	13982	26652	1.6	1.0E-21	AA557657.1	EST_HUMAN	601880636F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3951008 5'
1381	14128		2.62	1.0E-21	A1601284.1	EST_HUMAN	Homo sapiens putative 8-hydroxyguanine DNA glycosylase gene, complete cds
6396	19165		2.74	1.0E-21	AL076752.1	EST_HUMAN	n146c04.s1 NCL_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043718 similar to contains MER29.b2
7092	19781	32847	6.6	1.0E-21	A1223104.1	EST_HUMAN	MER29 repetitive element;
10484	23130		1.07	1.0E-21	5730038	NT	ar68d12.x1 Barstead colort HPLRB7 Homo sapiens cDNA clone IMAGE:2162343 3'
4377	17114	29747	5.65	9.0E-22	A1702438.1	EST_HUMAN	DKFZp434I0830_r1 434 (synonym: h15e3) Homo sapiens cDNA clone DKFZp434I0830 5'
8502	21194	34338	1.27	9.0E-22	AL163201.2	NT	ig47e05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838336 3' similar to gb:MG4241 Q1M
8502	21194	34337	1.27	9.0E-22	AL163201.2	NT	PROTEIN (HUMAN);
							Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
							ts24a03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2296204 3' similar to TR:Q15408 Q15408
							NEUTRAL PROTEASE LARGE SUBUNIT;
							Homo sapiens chromosome 21 segment HS21C001
							Homo sapiens chromosome 21 segment HS21C001

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10891	23382	36822	2.63	9.0E-22	AV761874.1	EST_HUMAN	AV761874 MDS Homo sapiens cDNA clone MDSOOG05 5'
11707	24302	37627	1.34	9.0E-22	AU140358.1	EST_HUMAN	AU140358 PLACE2 Homo sapiens cDNA clone PLACE2000364 5'
929	13696		6.65	8.0E-22	BE144748.1	EST_HUMAN	OM0-HT0179-281099-076-h05 HT0179 Homo sapiens cDNA
7797	20492		3.72	8.0E-22	AA046502.1	EST_HUMAN	2k67a06.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487858 5'
650	13428	26087	5.92	7.0E-22	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
4250	16961	29816	2.21	7.0E-22	Q61838	SWISSPROT	ALPHA-2-MACROGLOBULIN PRECURSOR (ALPHA2M)
4977	17700	30307	0.99	7.0E-22	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
8590	21282		1.38	7.0E-22	AF151054.1	NT	Homo sapiens HSPC220 mRNA, complete cds
8731	21423	34568	3.56	7.0E-22	M78590.1	EST_HUMAN	EST00738 Fetal brain, Stratiogene (cat#836206) Homo sapiens cDNA clone HFB0CF07
9502	22155	35335	2.04	7.0E-22	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TORBV73A2 to TORBV12S2 region
4038	16783	29413	0.98	6.0E-22	AA405040.1	EST_HUMAN	zu65d10.r1 Soares_lesits_NHT Homo sapiens cDNA clone IMAGE:742867 5'
8140	20834		1.33	6.0E-22	AW026123.1	EST_HUMAN	wx05g07.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2542812 3'
6424	19192	32188	3.76	5.0E-22	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
10217	22865	36077	7.83	5.0E-22	U60822.1	NT	Human dyshydrophlin (DMD) gene, exons 7, 8 and 9, and partial cds
12469	24854		2.22	5.0E-22	BF479511.1	EST_HUMAN	haa27b06.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3255898 3' similar to contains Alu repetitive element
3627	16380		0.85	4.0E-22	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8004	20669	33827	0.45	4.0E-22	AV703223.1	EST_HUMAN	AV703223 ADB Homo sapiens cDNA clone ADBAUE12 5'
8312	25428		3.11	4.0E-22	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
10623	23316	36556	2.47	4.0E-22	BF218030.1	EST_HUMAN	601862813F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4095434 5'
12657	24957		2.06	4.0E-22	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C009
939	13706		1.58	3.0E-22	A1469879.1	EST_HUMAN	tm14h10.x1 NCI_CGAP_Co14 Homo sapiens cDNA clone IMAGE:2158611 3' similar to gb:U19593 HIGH AFFINITY INTERLEUKIN-8 RECEPTOR B (HUMAN); contains L1.1 L1 repetitive element;
2575	15289	28028	0.92	3.0E-22	A1859038.1	EST_HUMAN	wf66b04.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2429839 3' similar to SW:RL21_HUMAN P46778 60S RIBOSOMAL PROTEIN L21;
3662	16415		1.46	3.0E-22	D14718.1	NT	Human chromosomal protein HMGI related gene
4748	17480	30111	2.6	3.0E-22	A1090125.1	EST_HUMAN	qb28c07.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1687580 3' similar to contains MER1212 MER12 repetitive element;
8129	20823		0.8	3.0E-22	BE156613.1	EST_HUMAN	QV0-HT0368-080200-098-F12-HT0368 Homo sapiens cDNA
8134	20828	33963	2.46	3.0E-22	BE089841.1	EST_HUMAN	RC5-BT0707-150300-021-H10 BT0707 Homo sapiens cDNA
8258	20952	34088	0.97	3.0E-22	X60660.1	NT	R_rattus RY2G5 mRNA for a potential ligand-binding protein
8258	20952	34089	0.97	3.0E-22	X60660.1	NT	R_rattus RY2G5 mRNA for a potential ligand-binding protein
1946	14681		2.29	2.0E-22	N24942.1	EST_HUMAN	yx73db05.s1 Soares_melanocyte_2N6HM Homo sapiens cDNA clone IMAGE:267369 3'
2528	15242	27981	2.15	2.0E-22	P24916	SWISSPROT	IMMEDIATE EARLY GENE 13 PROTEIN PRECURSOR

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3414	16172	28821	4.41	2.0E-22	8394043	NT	Homo sapiens protein kinase, AMP-activated, gamma 3 non-catalytic subunit (PRKAG3), mRNA
4200	16941	29567	1.17	2.0E-22	AW817794.1	EST_HUMAN	PM1-ST0282-261199-001-412 ST0282 Homo sapiens cDNA
5761	25075	31476	1.18	2.0E-22	W39456.1	EST_HUMAN	zc2001.1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:322873 5' similar to
6084	18662	31828	3.68	2.0E-22	BF092116.1	EST_HUMAN	gb:X72308 MONOCYTE CHEMOTACTIC PROTEIN 3 PRECURSOR (HUMAN);
9602	22265	35440	1.53	2.0E-22	A1276522.1	EST_HUMAN	RC0-TN0079-150900-025-h12 TN0079 Homo sapiens cDNA
9896	22347	35540	0.69	2.0E-22	AA715315.1	EST_HUMAN	q176h06.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1878299 3' similar to contains
9696	22347	35541	0.69	2.0E-22	AA715315.1	EST_HUMAN	MER29.B3 MER29 repetitive element;
11761	24352	37684	1.68	2.0E-22	AW418080.1	EST_HUMAN	nv04h11.s1 NCI CGAP_P22 Homo sapiens cDNA clone IMAGE:1219269 3'
11872	24946	30983	3.71	2.0E-22	AL163280.2	NT	nv04h11.s1 NCI CGAP_P22 Homo sapiens cDNA clone IMAGE:1219269 3'
1871	14609	27320	1.78	1.0E-22	AW865517.1	EST_HUMAN	ha24f04.x1 NCI CGAP_Kd12 Homo sapiens cDNA clone IMAGE:2874655 3'
2588	15302	28038	1.1	1.0E-22	U60871.1	NT	Homo sapiens chromosome 21 segment HS21C080
3405	16163	28814	1.37	1.0E-22	D14547.1	NT	PM4-SN0020-010400-009-h02 SN0020 Homo sapiens cDNA
7641	20308	33415	0.89	1.0E-22	BE084667.1	EST_HUMAN	Human familial Alzheimer's disease (STM2) gene, complete cds
10451	23097	36328	0.79	1.0E-22	A1365435.1	EST_HUMAN	Human DNA, SINE repetitive element
10451	23097	36329	0.79	1.0E-22	A1365435.1	EST_HUMAN	MRO-BT0659-220200-002-h07 BT0659 Homo sapiens cDNA
12704	24984	28959	5.89	9.0E-23	AW802801.1	EST_HUMAN	q209b07.x1 NCI CGAP_GLL1 Homo sapiens cDNA clone IMAGE:2020981 3' similar to contains MER29.b2
3557	16312	28959	0.70	8.0E-23	AF198349.1	NT	MER29 repetitive element;
3305	16065	36895	2.55	7.0E-23	AV647248.1	EST_HUMAN	q209b07.x1 NCI CGAP_GLL1 Homo sapiens cDNA clone IMAGE:2020981 3' similar to contains MER29.b2
10668	23842	36895	4.16	7.0E-23	5031962	NT	IL2-JM0076-070400-081-F11 JM0076 Homo sapiens cDNA
3427	16184	28601	1.72	6.0E-23	AF198333.1	NT	Gallus gallus Dech2 protein (Dech2) mRNA, complete cds
4235	16976	28601	1.39	6.0E-23	AL163249.2	NT	Gallus gallus Dech2 protein (Dech2) mRNA, complete cds
12005	24540	31105	1.5	6.0E-23	AF224669.1	NT	AV647248 GLO Homo sapiens cDNA clone GLCAW007 3'
12005	24540	31106	1.5	6.0E-23	AF224669.1	NT	Homo sapiens Ndc50 (D. melanogaster)-like protein (NOT66L) mRNA
12192	24663	31067	3.28	6.0E-23	A1209130.1	EST_HUMAN	Rattus norvegicus RIM1B (Rim1B) mRNA, complete cds
5358	18160	30844	4.09	5.0E-23	U82871.2	NT	Homo sapiens chromosome 21 segment HS21C046
							Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
							(UBE2D3) genes, complete cds
							Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
							(UBE2D3) genes, complete cds
							qg50c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1639400 3' similar to
							SW:MV10_MOUSE P23240 PROTEIN MOV-10.;
							Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12
							(MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), catractin
							(GALT), NAD(P)H dehydrogenase-like protein (NSDHL), and LI>

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6145	25086	31893	3.93	5.0E-23	AF179818.1	NT	Pongo pygmaeus olfactory receptor (PPY116) gene, partial cds
7337	25086	31893	3.37	5.0E-23	AF179818.1	NT	Pongo pygmaeus olfactory receptor (PPY116) gene, partial cds
6347	19117	32106	1.34	3.0E-23	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
6347	19117	32107	1.34	3.0E-23	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
7738	20434	33556	4.1	3.0E-23	AA130165.1	EST_HUMAN	z35g09.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503968 5' similar to contains MER28.12 MER29 repetitive element ;
9148	21879	35045	2.96	3.0E-23	Z70694.1	NT	Human endogenous retroviral element HC2
9148	21879	35046	2.98	3.0E-23	Z70694.1	NT	Human endogenous retroviral element HC2
10215	22863		1.18	3.0E-23	AW897927.1	EST_HUMAN	RC3-NN0066-270400-011-001 NN0066 Homo sapiens cDNA
651	13429	26068	4.25	2.0E-23	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
1120	15520		3.87	2.0E-23	M55270.1	NT	Human matrix Gla protein (MGP) gene, complete cds
2798	15503	28243	1.98	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
2798	15503	28244	1.98	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
3384	16123		1.46	2.0E-23	AI201458.1	EST_HUMAN	qs73r11.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:1943757 3' similar to TR:Q13537 Q13537
3705	16458		3.35	2.0E-23	BE165980.1	EST_HUMAN	MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
3958	16707	29346	3.65	2.0E-23	H59931.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
3958	16707	29347	3.85	2.0E-23	H59931.1	EST_HUMAN	yr16a02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205418 5'
							yr16a02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205418 5'
7772	20468		4.3	2.0E-23	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
8742	21434	34579	1.21	2.0E-23	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
11991	24530		2.45	2.0E-23	M32658.1	NT	Human alcohol dehydrogenase gamma subunit (ADH3) gene, exon 1
12508	24960		2.87	2.0E-23	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
4492	17228	29857	1.1	1.0E-23	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
4714	17448		5.56	1.0E-23	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
6620	19382		3.28	1.0E-23	BE378471.1	EST_HUMAN	601236455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608653 5'
8254	20948	34085	4.6	1.0E-23	AA448097.1	EST_HUMAN	zsv62c06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:782698 5' similar to contains PTR5.12 PTR5 repetitive element ;
10570	23265	36503	2.05	1.0E-23	BE409643.1	EST_HUMAN	601301762F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636254 5'
10570	23265	36504	2.05	1.0E-23	BE409643.1	EST_HUMAN	601301762F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636254 5'
539	13322		1.84	9.0E-24	AA683213.1	EST_HUMAN	ab75a08.s1 Stralagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:852768 3' similar to TR:E19822 E19822 CA PROTEIN ;
6357	18127	32121	1.53	8.0E-24	11422027	NT	(Homo sapiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA

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3853	16603		1.49	7.0E-24	AW937954.1	EST_HUMAN	QV0-DT0047-170200-122-a08 DT0047 Homo sapiens cDNA
5087	17806		0.95	7.0E-24	AL039498.1	EST_HUMAN	DKFZp434A2311_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434A2311 5'
10538	23233		1.33	7.0E-24	AW303317.1	EST_HUMAN	xv1703.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405 3' similar to contains Alu repetitive element; contains MER19.12 MER19 repetitive element;
680	13485		2.72	6.0E-24	AB001421.1	NT	Macaca fuscata mRNA for Testis-Specific Protein Y (TSPY), complete cds
818	13559	26256	11.74	6.0E-24	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
3853	16703	28342	7.9	5.0E-24	AJ228043.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
7657	20321	33430	0.58	5.0E-24	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11595	24194	37513	1.45	5.0E-24	AW514229.1	EST_HUMAN	hd24b03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2810413 3' similar to TR:O94861
5840	18628	31563	3.85	4.0E-24	AA594178.1	EST_HUMAN	O94861 KIAA0750 PROTEIN;
8581	21273	34411	1.35	4.0E-24	AW813711.1	EST_HUMAN	hn31h05.s1 NCI_CGAP_Gas1 Homo sapiens cDNA clone IMAGE:1085529 3' similar to SW:POL_MLVRK
11133	23801	37078	1.95	4.0E-24	BE544822.1	EST_HUMAN	P31795 POL POLYPROTEIN;
12361	24765	31062	4.89	4.0E-24	AB028016.1	NT	RC3-ST0197-130100-014-08 ST0197 Homo sapiens cDNA
12595	24951	30966	1.77	4.0E-24	11418318	NT	501078812F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3484498 5'
8322	21015		2.85	3.0E-24	AW614871.1	EST_HUMAN	Homo sapiens mRNA for KIAA1093 protein, partial cds
8377	21070		1.57	3.0E-24	AW962076.1	EST_HUMAN	Homo sapiens G-2 and S-phase expressed 1 (GTSET1), mRNA
9385	21940	35114	4.33	3.0E-24	AL163252.2	NT	hh68c08.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2967950 3' similar to contains MER29 b2
12438	24808	31045	1.41	3.0E-24	BF127762.1	EST_HUMAN	MER29 repetitive element;
2346	15069	27806	2.72	2.0E-24	AA167539.1	EST_HUMAN	EST374149 IMAGE resequences, MAGG Homo sapiens cDNA
3779	16531		1.01	2.0E-24	AW898189.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C052
7374	20054	33135	0.81	2.0E-24	AF086824.1	NT	501810449F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053396 5'
7379	20059	33138	0.65	2.0E-24	AJ003538.1	EST_HUMAN	zp11f09.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609161 5'
8639	21331	34476	3.28	2.0E-24	AL119158.1	EST_HUMAN	RC3-NN0098-090500-021-b03 NN0098 Homo sapiens cDNA
8676	21368		0.98	2.0E-24	H69214.1	EST_HUMAN	Mus musculus rhoRec-Interacting citron kinase (Crik) mRNA, complete cds
9754	22405	35911	0.94	2.0E-24	A1521759.1	EST_HUMAN	AJ003536 Selected chromosome 21 cDNA library Homo sapiens cDNA clone NPIp12-5H13
9754	22405	35912	0.94	2.0E-24	A1521759.1	EST_HUMAN	DKFZp761L1712_r1 761 (synonym: hary2) Homo sapiens cDNA clone DKFZp761L1712 5'
11825	24409	37744	1.31	2.0E-24	AW868552.1	EST_HUMAN	y92b08.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212729 5' similar to contains
11825	24409	37745	1.31	2.0E-24	AW868552.1	EST_HUMAN	MER28 repetitive element;
12281	25377		7.44	2.0E-24	M28877.1	NT	5177409.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008 3'
							5177409.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008 3'
							MR1-SN0063-040500-001-a08 SN0063 Homo sapiens cDNA
							MR1-SN0063-040500-001-a08 SN0063 Homo sapiens cDNA
							Human O family dispersed repeat element

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1691	14435	27131	2.69	1.0E-24	7706340	NT	Homo sapiens CGI-127 protein (LOC51046), mRNA
2679	15388		1.63	1.0E-24	AW820104.1	EST_HUMAN	QV0-ST0294-100400-185-c10 ST0294 Homo sapiens cDNA
3020	15786	28433	1.49	1.0E-24	D86423.1	NT	Mus musculus mRNA for HGT keratin, partial cds
4237	16978		1.71	1.0E-24	AF143313.1	NT	Homo sapiens PTEN (PTEN) gene, exon 2
7447	20123	33214	4.32	1.0E-24	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
7630	20266	33404	0.81	1.0E-24	BE144528.1	EST_HUMAN	MR0-HT0168-271169-005-d09 HT0168 Homo sapiens cDNA
7845	20540	33667	2.08	1.0E-24	AW801164.1	EST_HUMAN	CM0-NN1010-130300-281-d07 NN1010 Homo sapiens cDNA
11699	24294	37619	1.31	9.0E-25	7706707	NT	Homo sapiens putative secreted protein (SIG11), mRNA
4939	17667	30275	2.33	7.0E-25	AA483944.1	EST_HUMAN	ne02e10.s1 NCI_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:911754 similar to contains MER1.b2
8117	20811	33946	6.59	7.0E-25	AA468846.1	EST_HUMAN	MER1 repetitive element;
11701	24298	37622	3.28	7.0E-25	AA583540.1	EST_HUMAN	ne06s09.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR
6893	17969		4.9	6.0E-25	W87623.1	EST_HUMAN	repetitive element;
7622	20288	33397	8.34	6.0E-25	7305360	NT	nt25r06.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914843 similar to SW:R14A_YEAST
1647	14363	27063	1.18	5.0E-25	AW850271.1	EST_HUMAN	P36105 PROBABLE 60S RIBOSOMAL PROTEIN L14EA.;
11286	23947	37242	2.44	5.0E-25	AW979107.1	EST_HUMAN	zh05h07.t1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416989 5'
1429	14176	26861	2.25	4.0E-25	T98107.1	EST_HUMAN	Mus musculus obogelin (Obog), mRNA
3397	16155		3.04	4.0E-25	AW887671.1	EST_HUMAN	IL3-CT0219-161199-031-D04 CT0219 Homo sapiens cDNA
4282	17021		2.93	4.0E-25	BE170957.1	EST_HUMAN	EST391217 MAGC resequences, MAGP Homo sapiens cDNA
3314	16074	26724	3.98	3.0E-25	8923321	NT	ye56h04.t1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:121783 5'
3314	16074	26725	3.98	3.0E-25	8923321	NT	PM3-OT0093-280200-001-g07 OT0093 Homo sapiens cDNA
4837	17568	30190	0.75	3.0E-25	P29622	SWISSPROT	QV3-HT0543-140400-149-e11 HT0543 Homo sapiens cDNA
6518	16284	32288	0.6	3.0E-25	AA603590.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
8235	20929	34065	4.86	3.0E-25	AL163210.2	NT	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
10959	23635	36886	1.99	3.0E-25	AA579013.1	EST_HUMAN	KALLISTATIN PRECURSOR (KALLIKREIN INHIBITOR) (PROTEASE INHIBITOR 4)
1326	14075	26749	2.94	2.0E-25	5032158	NT	np27b02.s1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:1117515 3' similar to gb:M61866 ZINC
2306	15031	27768	6.42	2.0E-25	BE98016.1	EST_HUMAN	FINGER PROTEIN 85 (HUMAN);
2835	15259	27997	3.67	2.0E-25	P17008	SWISSPROT	Homo sapiens chromosome 21 segment HS21C010
4167	16907	29535	1.76	2.0E-25	P17008	SWISSPROT	nt30h10.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:915331 similar to contains L1.t1 L1
4167	16907	29536	1.76	2.0E-25	P17008	SWISSPROT	repetitive element;
							Homo sapiens transduch (beta)-like 1 (TBL1), mRNA
							601511530F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
							40S RIBOSOMAL PROTEIN S16
							40S RIBOSOMAL PROTEIN S16
							40S RIBOSOMAL PROTEIN S16

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9665	22317	35514	1.94	2.0E-25	AL449573.1	EST_HUMAN	AL449573 Homo sapiens Testis (Starvick GS) Homo sapiens cDNA
355	13153	25794	1.03	1.0E-25	AL040229.1	EST_HUMAN	DKFZp434f0313_r1 434 (synonym: hbs3) Homo sapiens cDNA clone DKFZp434f0313 5'
1226	13976		2.02	1.0E-25	9635487	NT	Human endogenous retrovirus, complete genome
2435	15156	27890	1.03	1.0E-25	Q08055	SWISSPROT	ATP SYNTHASE LIPID-BINDING PROTEIN P2 PRECURSOR (ATPASE PROTEIN 9) (SUBUNIT C)
4806	17537	30160	2.84	1.0E-25	BE162737.1	EST_HUMAN	PM1-HT0454-080100-002-H09 HT0454 Homo sapiens cDNA
6472	19239						z45508.s1 Stratiogene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to contains Alu repetitive element;
6699	25100	32657	0.79	1.0E-25	AA189090.1	EST_HUMAN	nm54h11.s1 NCL CGAP Kd6 Homo sapiens cDNA clone IMAGE:1087749 3'
7814	20509	33633	4.03	1.0E-25	AA709078.1	EST_HUMAN	z98904.s1 Soares_fetal_heart_NH19W Homo sapiens cDNA clone IMAGE:384822 3' similar to contains PTR5.13 PTR5 repetitive element;
9446	22123	33302	0.75	1.0E-25	X60660.1	NT	R.rattus RY235 mRNA for a potential ligand-binding protein
9446	22123	33303	0.75	1.0E-25	X60660.1	NT	R.rattus RY235 mRNA for a potential ligand-binding protein
10890	23570	36821	3.08	1.0E-25	U93163.1	NT	Homo sapiens IMAGE-B2 (IMAGE-B2), IMAGE-B3 (IMAGE-B3), IMAGE-B4 (IMAGE-B4), and IMAGE-B1 (IMAGE-B1) genes, complete cds
12768	25024		2.18	1.0E-25	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
2487	15204	27845	1.41	9.0E-26	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
5607	18403		1.99	8.0E-26	D14547.1	NT	Human DNA, SINE repetitive element
1571	14318	27003	1.72	7.0E-26	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
3902	16711	28351	1.23	7.0E-26	X89211.1	NT	H.sapiens DNA for endogenous retroviral like element
4138	16880	28508	2.27	7.0E-26	AW340153.1	EST_HUMAN	hd02et12.x1 Soares_NFL_T_QBC_S1 Homo sapiens cDNA clone IMAGE:2908366 3'
5551	16348	31257	0.62	7.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
11689	24284		8.45	7.0E-26	AA115895.1	EST_HUMAN	zn30d08.r1 Stratiogene neuroepithelium NT2RAM1 937234 Homo sapiens cDNA clone IMAGE:548943 5' similar to gbM14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
12547	24885		1.64	7.0E-26	AW954559.1	EST_HUMAN	EST366629 IMAGE resequences, MAGC Homo sapiens cDNA
2222	14960	27889	2.04	6.0E-26	AF028308.1	NT	Homo sapiens chromosome 8 duplication of the T cell receptor beta locus and tyrosinogen gene families
3341	16100	28752	0.95	6.0E-26	AA206131.1	EST_HUMAN	zq52h04.r1 Stratiogene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:645271 5'
10432	23078	36301	0.88	6.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
10432	23078	36302	0.88	6.0E-26	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
11683	24278	37800	2.03	6.0E-26	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1154	13909	26572	3.61	6.0E-26	AI708235.1	EST_HUMAN	as38h08.x1 Barsstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2319519 3' similar to WP:F49C12.11 CE03371;

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1154	13909	26573	3.61	5.0E-26	AI708235.1	EST_HUMAN	as38108.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2319519 3' similar to WP:F49C12.11 CE03371;
1635	14282		1.4	4.0E-26	AA329548.1	EST_HUMAN	EST133446 Embryo, 12 week II Homo sapiens cDNA 5' end
9312	21979		3.72	4.0E-26	7657670	NT	Homo sapiens upstream binding transcription factor, RNA polymerase I (UBTF), mRNA
10558	23254	36491	2.75	4.0E-26	BE286187.1	EST_HUMAN	Human DNA, SINE repetitive element
1753	14495	27194	1.21	3.0E-26	D14547.1	NT	DKFZp4341066_r1 434 (synonym: htss3) Homo sapiens cDNA clone DKFZp4341066 5'
1998	14732	27454	1.31	3.0E-26	AL045855.2	EST_HUMAN	zr30408.r1 Stratagene neuroepithelium NT2RAMI 937234 Homo sapiens cDNA clone IMAGE:548943 5' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
2025	14760		3.15	3.0E-26	AA115895.1	EST_HUMAN	z03010.r1 Stratagene colon (#837204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:G695374
3760	16512	29148	1.04	3.0E-26	AA152464.1	EST_HUMAN	G695374 THYROID RECEPTOR INTERACTOR;
3760	16512	29149	1.04	3.0E-26	AA152464.1	EST_HUMAN	z03010.r1 Stratagene colon (#837204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:G695374
6811	19472	32495	1.78	3.0E-26	BF245458.1	EST_HUMAN	G695374 THYROID RECEPTOR INTERACTOR;
10628	23319		1.42	3.0E-26	AF039405.1	NT	Homo sapiens MLL (MLL) gene, exons 1-3, and partial cds
11559	24158	37468	1.83	3.0E-26	AW875651.1	EST_HUMAN	QV2-PT0012-040400-124-e05 PT0012 Homo sapiens cDNA
11569	24159	37469	1.83	3.0E-26	AW875651.1	EST_HUMAN	QV2-PT0012-040400-124-e05 PT0012 Homo sapiens cDNA
11802	24201	37523	6.56	3.0E-26	AA583173.1	EST_HUMAN	nm37405.s1 NCI_CGAP_GC5 Homo sapiens cDNA clone IMAGE:1086057 3' similar to contains OFR.H
11858	24442	37783	1.36	3.0E-26	AF228925.1	NT	OFR repetitive element;
							Mus musculus harmonin isoform b3 (Ush1c) mRNA, complete cds, alternatively spliced
12724	24995		2.52	3.0E-26	AW073434.1	EST_HUMAN	xa57609.x1 NCI_CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2670873 3' similar to contains MER30.H
686	13442	26083	6.76	2.0E-26	AL183282.2	NT	MER30 repetitive element;
1861	14598		3.07	2.0E-26	AL039099.2	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C082
3225	15988	28842	5.89	2.0E-26	X86994.1	NT	DKFZp500L171_s1 596 (synonym: htkd2) Homo sapiens cDNA clone DKFZp566L171 3'
5147	17868		1.09	2.0E-26	AF073482.1	NT	Mus musculus mRNA for astrocytic phosphoprotein, PEA-15
10653	23344		2.7	2.0E-26	D87675.1	NT	Homo sapiens myoblastin related protein 7 mRNA, partial cds
							Homo sapiens DNA for amyloid precursor protein, complete cds
11180	23846	37132	3	2.0E-26	AI801412.1	EST_HUMAN	to80e01.x1 NCI_CGAP_Geas4 Homo sapiens cDNA clone IMAGE:2185416 3' similar to contains Alu
11395	24001		2.45	2.0E-26	AF055066.1	NT	repetitive element; contains element MER20 MER20 repetitive element;
12106	24603		1.57	2.0E-26	AB037859.1	NT	Homo sapiens MHC class 1 region
133	12948	25591	5.18	1.0E-26	BE170371.1	EST_HUMAN	Homo sapiens mRNA for KIAA1438 protein, partial cds
2040	14774	27503	1.37	1.0E-26	AL093963.2	EST_HUMAN	QVA-H70538-020300-123-e02 HT0538 Homo sapiens cDNA
2683	15402		9.04	1.0E-26	AF261085.1	NT	DKFZp434H1910_r1 434 (synonym: htss3) Homo sapiens cDNA clone DKFZp434H1910 5'
							Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GADPH) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6740	19574		3.05	1.0E-26	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
10809	23492		2.21	1.0E-26	AL038487.1	EST_HUMAN	DKFZp566C2146_j1 568 (synonym: hfk42) Homo sapiens cDNA clone DKFZp566C2146 5'
12348	25305		3.53	1.0E-26	H55093.1	EST_HUMAN	CHR220332 Chromosome 22 exon Homo sapiens cDNA clone C22_45 5'
7484	20156		1.11	9.0E-27	BF371227.1	EST_HUMAN	RC8-FN0138-110800-022-A02 FN0138 Homo sapiens cDNA
9203	22082		4.14	9.0E-27	U93163.1	NT	Homo sapiens IMAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
11875	24454		5.72	9.0E-27	BF445556.1	EST_HUMAN	ncs03c07.x1 NCL CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3253044 3' similar to contains OFR.t1 OFR repetitive element;
10	12837	25450	3.83	8.0E-27	AI831482.1	EST_HUMAN	W49c04.x1 NCL CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element;
544	13327		4.33	8.0E-27	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
1395	14142	26819	59.39	8.0E-27	AW162737.1	EST_HUMAN	au87h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:K00558 TUBULIN ALPHA-1 CHAIN (HUMAN);
1395	14142	26820	59.39	8.0E-27	AW162737.1	EST_HUMAN	au87h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:K00558 TUBULIN ALPHA-1 CHAIN (HUMAN);
2164	14893	27629	1.37	8.0E-27	AW894776.1	EST_HUMAN	PM2-SN0018-220300-002-407 SN0018 Homo sapiens cDNA
3180	15943	28594	1.81	8.0E-27	P12236	SWISSPROT	ADP.ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)
3348	16107	28762	0.81	8.0E-27	AF181897.1	NT	Homo sapiens WRN (WRN) gene, complete cds
5608	18404	31317	1.02	8.0E-27	AV732214.1	EST_HUMAN	AV732214 HTF Homo sapiens cDNA clone HTFBC806 5'
6881	17957		2.53	8.0E-27	BE926560.1	EST_HUMAN	MR4-BT0308-250800-204-406 BT0308 Homo sapiens cDNA
6947	19429	32444	2.29	8.0E-27	N84970.1	EST_HUMAN	J1751F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J1751 5' similar to REPETITIVE ELEMENT L1
9109	21797	34961	1.51	8.0E-27	AW857579.1	EST_HUMAN	CM1-CT0315-091289-063-407 CT0315 Homo sapiens cDNA
9109	21797	34962	1.51	8.0E-27	AW857579.1	EST_HUMAN	CM1-CT0315-091289-063-407 CT0315 Homo sapiens cDNA
688	13444		1.23	7.0E-27	Z70694.1	NT	Human endogenous retroviral element HC2
5030	17750		2.25	7.0E-27	AW629172.1	EST_HUMAN	h51h12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2875879 3' similar to TR:076040 076040 ORF2: FUNCTION UNKNOWN;
8756	21448		1.19	7.0E-27	D86984.1	NT	Human mRNA for KIAA0231 gene, partial cds
10650	23341		4.26	7.0E-27	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
12484	24843		2.12	7.0E-27	AV723365.1	EST_HUMAN	AV723365 HTB Homo sapiens cDNA clone HTBAHE02 5'
10627	23320	36558	2.76	6.0E-27	M26697.1	NT	Human nuclear protein (B23) mRNA, complete cds
11804	24394	37728	1.57	8.0E-27	U93163.1	NT	Homo sapiens IMAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10137	22785	35986	2.82	5.0E-27	BF688614.1	EST_HUMAN	602121491F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4278527 5'
10137	22785	35987	2.82	5.0E-27	BF688614.1	EST_HUMAN	602121491F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4278527 5'
6645	19407	32421	1.65	4.0E-27	9910569	NT	Mus musculus sperm tail associated protein (Stap), mRNA
7840	20535		1.07	4.0E-27	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
7883	20578		1.54	4.0E-27	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9844	22296	35491	0.7	4.0E-27	AW880859.1	EST_HUMAN	QV0-OT0033-070300-152-b10 OT0033 Homo sapiens cDNA
11604	24203	37525	1.98	4.0E-27	X69211.1	NT	H. sapiens DNA for endogenous retroviral like element
2034	14798	27489	4.61	3.0E-27	X60658.1	NT	R. rattus RYA3 mRNA for a potential ligand-binding protein
4238	16979	29604	1.06	3.0E-27	BE071924.1	EST_HUMAN	PM0-BT0527-090100-001-411 BT0527 Homo sapiens cDNA
5262	18088	30697	6.24	3.0E-27	AA077705.1	EST_HUMAN	7B44C08 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B44C08
7698	20351	33475	0.63	3.0E-27	BE670351.1	EST_HUMAN	7633102.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284283 3'
9205	22084	35258	2.93	3.0E-27	BF038327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
40	12868	25487	14.84	2.0E-27	AF054187.1	NT	Homo sapiens alpha NAC mRNA, complete cds
1888	14625		5.12	2.0E-27	AA585345.1	EST_HUMAN	nk01b10.st NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:1000689 similar to gb:M17886 60S
3107	15872		10.39	2.0E-27	AW629172.1	EST_HUMAN	hi5hi12.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2975879 3' similar to TR:O76040 O76040 ORF2: FUNCTION UNKNOWN. ;
3218	15081	28632	1.96	2.0E-27	AF111187.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
3218	15981	28633	1.96	2.0E-27	AF111187.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
4009	16755	29385	1.36	2.0E-27	AF000368.1	NT	Rattus norvegicus voltage-gated sodium channel mRNA, complete cds
6577	19340	32353	0.61	2.0E-27	H02855.1	EST_HUMAN	y36e01.1 Scores placenta Nb2HP Homo sapiens cDNA clone IMAGE:150840 5' similar to SP-HMGC_MOUSE Q02591 HOMEBOX PROTEIN ;
7989	20884	33810	1.65	2.0E-27	AI868347.1	EST_HUMAN	w28g07.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2426288 3'
9169	21839		2.3	2.0E-27	AA551527.1	EST_HUMAN	rh08h05.st NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943737 similar to contains L1.13 L1 repetitive element ;
9691	22342	35336	0.76	2.0E-27	X60658.1	NT	R. rattus RYA3 mRNA for a potential ligand-binding protein
9935	22583	35782	1.28	2.0E-27	M78590.1	EST_HUMAN	EST00738 Fetal brain, Striatum (cat#036206) Homo sapiens cDNA clone HFBCF07
9935	22583	35783	1.28	2.0E-27	M78590.1	EST_HUMAN	EST00738 Fetal brain, Striatum (cat#036206) Homo sapiens cDNA clone HFBCF07
10875	23355	36902	4.11	2.0E-27	AU121685.1	EST_HUMAN	AU121685 MAMMA1 Homo sapiens cDNA clone MAMMA1000746 5'
11489	14825		3.31	2.0E-27	AA585345.1	EST_HUMAN	nk01b10.st NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:1000689 similar to gb:M17886 60S
426	13212		1.51	1.0E-27	AL163245.2	NT	ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN); Homo sapiens chromosome 21 segment HS21C046

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
976	13741	26404	1.34	1.0E-27	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4061	16806		0.98	1.0E-27	BE350127.1	EST_HUMAN	h08g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
6449	19217	32215	6.26	1.0E-27	6005855	NT	MER29 repetitive element ;
6771	19515	32542	1.96	1.0E-27	F30158.1	EST_HUMAN	Homo sapiens Retine-derived POU-domain factor-1 (RPF-1), mRNA
6771	19515	32543	1.96	1.0E-27	F30158.1	EST_HUMAN	HSPD20461 HM3 Homo sapiens cDNA clone s4000095C10
8508	21200	34346	0.98	1.0E-27	AB007823.1	NT	HSPD20461 HM3 Homo sapiens cDNA clone s4000095C10
8884	21575		2.26	1.0E-27	BE079780.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
9822	22275	35463	2.55	1.0E-27	D87449.1	NT	RC9-BT0627-140200-011-E06 BT0627 Homo sapiens cDNA
11704	24299	37625	3.51	1.0E-27	AF111093.1	NT	Human mRNA for KIAA0280 gene, partial cds
137	12951		2.94	9.0E-28	BE348399.1	EST_HUMAN	Bos taurus letraphilin 3 splice variant brain mRNA, complete cds
303	13107	25747	3.31	9.0E-28	AU126260.1	EST_HUMAN	hwt1c11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183188 3' similar to TR:Q07314 Q07314
10289	22837	36150	0.63	9.0E-28	AA174078.1	EST_HUMAN	SECRETED NEUREXIN III-ALPHA-C PRECURSOR [3] TR:Q07280 TR:Q07313 ;
11951	24504		4.85	9.0E-28	BF377859.1	EST_HUMAN	AU126260 NT2RP1 Homo sapiens cDNA clone NT2RP1000443.5
12286	25245		2.46	8.0E-28	AW157571.1	EST_HUMAN	2p18g12.s1 Stralagene fetal retina 637202 Homo sapiens cDNA clone IMAGE:609862 3'
1158	13913	26576	7.89	7.0E-28	AU142750.1	EST_HUMAN	CM2-TN0140-070900-372-q01 TN0140 Homo sapiens cDNA
1142	23809	37089	3.36	7.0E-28	11417896	NT	au83h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
11810	24474		2.78	7.0E-28	AV735348.1	EST_HUMAN	TR:O60302 O60302 KIAA0555 PROTEIN ; contains element MER22 repetitive element ;
8817	21509		0.97	6.0E-28	AF018052.1	NT	AU142750 Y79AA1 Homo sapiens cDNA clone Y79AA1000824 5'
12526	24873		2.35	6.0E-28	AA504562.1	EST_HUMAN	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
310	13114		4.19	5.0E-28	A1921003.1	EST_HUMAN	AV735348 CB Homo sapiens cDNA clone CBFAKA12 5'
3990	16738	29372	1.44	5.0E-28	R79762.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF191 (ZNF191) gene, complete cds
2631	15343	28087	1.68	4.0E-28	AW195066.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF191 (ZNF191) gene, complete cds
2976	15742	28389	0.78	4.0E-28	4505316	NT	aa60a03.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825340 5' similar to contains Au
3106	15871	28511	2.52	4.0E-28	BE409100.1	EST_HUMAN	repetitive element; contains element PTR5 repetitive element ;
7230	16915	32988	1.93	4.0E-28	A1108941.1	EST_HUMAN	w018c07.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2455692 3' similar to contains THR.b1
							THR repetitive element ;
							y88f10.r1 Soares placenta NB2HP Homo sapiens cDNA clone IMAGE:146443 5'
							xt33c09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2695504 3' similar to SW:G395_HUMAN
							Q08379 GOLGIN-85 ;
							Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
							601300703F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635305 5'
							qf60f10.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to gb:M19503 LINE-1
							REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10774	23457		3.08	4.0E-28	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinase gene families
10928	23608		17.24	4.0E-28	AB038241.1	NT	Felis catus GAPDH mRNA for glyceraldehyde-3-phosphate dehydrogenase, complete cds
10950	19615	32988	4.75	4.0E-28	AI198941.1	EST_HUMAN	qf86f10.x1 Soares_NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to gb:M19503 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);
12312	24734		1.84	4.0E-28	AW854244.1	EST_HUMAN	RC3-CT0254-240400-210-112 CT0254 Homo sapiens cDNA
1280	14009		2.88	3.0E-28	AF155382.1	NT	Homo sapiens metalloprotease-like, disintegrin-like, cysteine-rich protein 2 epsilon (ADAM22) mRNA, complete cds
5051	17770		1.05	3.0E-28	AF009860.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S9A2 to TCRBV12S2 region
8728	21418	34562	1.89	3.0E-28	BF354030.1	EST_HUMAN	MR3-HT0713-280500-013-109 HT0713 Homo sapiens cDNA
10853	23533	36778	2.09	3.0E-28	U53588.1	NT	Homo sapiens MHC class 1 region
12344	24751		3.62	3.0E-28	AB31991.1	EST_HUMAN	wj98f07.x1 NCL_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410885 3' similar to contains Alu repetitive element; contains element HGR repetitive element;
87	12813	25551	10.6	2.0E-28	BE062167.1	EST_HUMAN	RC1-BT0254-220300-019-c05 BT0254 Homo sapiens cDNA
1023	13783	26444	0.86	2.0E-28	4501912	NT	Homo sapiens a disintegrin and metalloprotease domain 23 (ADAM23) mRNA
1142	13897	26558	16.03	2.0E-28	Y11107.3	NT	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
2481	15199	27839	2.1	2.0E-28	AB348634.1	EST_HUMAN	qp35506.x1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1910483 3' similar to contains L1.b2 L1 repetitive element;
6215	18989	31906	1.33	2.0E-28	BF224402.1	EST_HUMAN	lr76c03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134404 3' similar to contains LOR1.b1 LOR1 repetitive element;
8238	19012		5.07	2.0E-28	BF212905.1	EST_HUMAN	601814109F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4948761 6'
7943	20638	33796	0.71	2.0E-28	AF008273.1	NT	Sus scrofa domestica submandibular apomucin mRNA, complete cds
9484	22137		5.54	2.0E-28	AW972305.1	EST_HUMAN	EST384394 IMAGE resequences, MAGL Homo sapiens cDNA
11614	24212	37536	1.84	2.0E-28	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12322	24741		2.22	2.0E-28	H06378.1	EST_HUMAN	yf79c09.r1 Soares Infant brain INIB Homo sapiens cDNA clone IMAGE:44300 5'
1461	14208	26896	2.84	1.0E-28	D38044.1	NT	Human gene for A1-receptor, exon 7-9
2217	14945	27685	2.37	1.0E-28	BF333236.1	EST_HUMAN	QV1-BT0821-120900-360-503 BT0821 Homo sapiens cDNA
7759	20455		3.2	1.0E-28	11429885	NT	Homo sapiens similar to ribosomal protein L12 (H. sapiens) (LOC630891), mRNA
7917	20612		3.3	1.0E-28	8922793	NT	Homo sapiens hypothetical protein FLJ10968 (FLJ10968), mRNA
9178	21848	35014	4.84	1.0E-28	AA308744.1	EST_HUMAN	EST179615 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' and similar to retroviral LTR
9776	22427	35633	8.73	1.0E-28	4758431	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
9778	22427	35634	8.73	1.0E-28	4758431	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10422	23068		0.53	1.0E-28	AU148356.1	EST_HUMAN	AU148356 NT2RM4 Homo sapiens cDNA clone NT2RM4002146 3'
11915	24478		7.79	1.0E-28	AA054182.1	EST_HUMAN	zf51c01.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380448 5'
12851	25143		1.88	1.0E-28	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12749	25346	30803	3.18	9.0E-28	AW663987.1	EST_HUMAN	h176g06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978266 3'
12436	24808		3.32	8.0E-28	Q00130	SWISSPROT	HYPOTHETICAL GENE 50 PROTEIN
1598	14344	27034	1.37	7.0E-29	AW068447.1	EST_HUMAN	EST378521 MAGE resequences, MAGI Homo sapiens cDNA
12794	26045		7.13	7.0E-28	AJ132352.1	NT	Rattus norvegicus mRNA for 46 kDa secretory protein, partial
581	13361	25989	16.66	6.0E-29	A1936748.1	EST_HUMAN	wp69b01.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2466985 3' similar to TR:O15475
12201	24869		8.09	6.0E-29	BE940436.1	EST_HUMAN	O15475 UNNAMED HERV-H PROTEIN ; contains LTR7.b1 LTR7 repetitive element ;
12286	24717		1.72	6.0E-28	BF568097.1	EST_HUMAN	RC3-UT0062-210800-021-c06 UT0062 Homo sapiens cDNA
8630	21322		5.38	5.0E-29	AW887541.1	EST_HUMAN	602184092F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300079 5'
3226	15989		1.84	4.0E-28	AJ752367.1	EST_HUMAN	RC3-OT0091-170300-011-c12 OT0091 Homo sapiens cDNA
5919	18704		7.91	4.0E-29	BE164930.1	EST_HUMAN	cn15c02.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn15c02 random
7979	20674	33797	0.55	4.0E-29	A1678101.1	EST_HUMAN	QV1-HT0471-280300-121-a05 HT0471 Homo sapiens cDNA
7979	20674	33798	0.55	4.0E-29	A1678101.1	EST_HUMAN	wd35g06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains
8644	21336	34480	6.21	4.0E-29	J04988.1	NT	MER29.12 MER29 repetitive element ;
4381	17118	29751	1.4	3.0E-29	AB042297.1	NT	Human 90 kD heat shock protein gene, complete cds
4884	17418	30054	1.07	3.0E-29	BF933236.1	EST_HUMAN	Homo sapiens P7S gene for 6-pyruvoyl-tetrahydropterin synthase, complete cds
6841	18629	31564	1.18	3.0E-29	BE314018.1	EST_HUMAN	QV1-BT0821-120900-360-b03 BT0821 Homo sapiens cDNA
8032	21324	34496	2.87	3.0E-29	D38044.1	NT	601162667F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508527 5'
6200	21869	36034	1.69	3.0E-29	AW303317.1	EST_HUMAN	Human gene for Ah-receptor, exon 7-9
9431	22109		1.87	3.0E-29	AL163246.2	NT	xv17f03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405 3' similar to contains Alu
9859	22509		0.61	3.0E-29	BE350127.1	EST_HUMAN	repetitive element; contains MER19.12 MER19 repetitive element ;
11235	23898	37185	1.47	3.0E-29	AA403053.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
12102	24800		1.53	3.0E-29	D63882.1	NT	h609g01.x1 NCI CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
12789	25376		7.53	3.0E-29	AA016177.1	EST_HUMAN	MER29 repetitive element ;
480	13265	25900	1.72	2.0E-29	AF084899.1	NT	zf62b01.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726889 5' similar to TR:G1335769
							G1335769 GAG-POL POLYPEPTIDE ;
							Human HsLIM15 mRNA for HsLIM15, complete cds
							zs32c09.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360712 3'
							Homo sapiens envelope protein RIC-6 (env) gene, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
480	13265	25901	1.72	2.0E-29	AF084869.1	NT	Homo sapiens envelope protein RIC-8 (env) gene, complete cds
1523	14270	26955	6.62	2.0E-29	AI963604.1	EST_HUMAN	wf65d10.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2492563 3' similar to TR:O15546 O15546 HERV-E ENVELOPE GLYCOPROTEIN ;
1623	14270	26956	6.82	2.0E-29	AI963604.1	EST_HUMAN	wf65d10.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2492563 3' similar to TR:O15546 O15546 HERV-E ENVELOPE GLYCOPROTEIN ;
4246	16987	29610	1.63	2.0E-29	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
5735	18527	31449	0.99	2.0E-29	AI982459.1	EST_HUMAN	os71e04.x1 NCI_CGAP_GC2 Homo sapiens cDNA clone IMAGE:1610814 3' similar to contains L1.12 L1 repetitive element ;
6087	18866	31830	1.48	2.0E-29	AI906418.1	EST_HUMAN	wf27g07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356860 3' similar to contains element MER6 repetitive element ;
7459	18865	31830	1.36	2.0E-29	AI906418.1	EST_HUMAN	wf27g07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356860 3' similar to contains element MER6 repetitive element ;
7876	20571	33698	1.16	2.0E-29	BE867157.1	EST_HUMAN	601442206F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846648 5'
8477	21169	34313	0.83	2.0E-29	10567821	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
8477	21169	34314	0.63	2.0E-29	10567821	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
9408	22070	35241	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
9408	22070	35242	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10139	22787	35999	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10139	22787	36000	3.61	2.0E-29	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10877	23657	36804	1.31	2.0E-29	BF025947.1	EST_HUMAN	601669834F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3952833 5'
11459	24063		2.04	2.0E-29	11425108	NT	Homo sapiens splicing factor similar to dnal (SPF51), mRNA
11499	24100		1.73	2.0E-29	AW880701.1	EST_HUMAN	QV0-OT0032-080300-155-601 OT0032 Homo sapiens cDNA
9601	21363	34627	7.37	1.0E-29	AW983980.1	EST_HUMAN	RC1-HN0003-220300-021-604 HN0003 Homo sapiens cDNA
10518	23184	36391	0.85	1.0E-29	X60658.1	NT	Rattus RYA3 mRNA for a potential ligand-binding protein
6487	10254	32265	2.97	9.0E-30	AA761216.1	EST_HUMAN	nz20c07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1288332 3' similar to contains MER4.b1 MER4 repetitive element ;
11982	24531		1.76	9.0E-30	11422745	NT	Homo sapiens zirconin regulated transporter-like (ZIRTL), mRNA
6227	19001		8.94	8.0E-30	F08688.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c-23f05
8168	20862	33994	3.72	8.0E-30	AA383873.1	EST_HUMAN	EST07317 Thymus 1 Homo sapiens cDNA 5' end similar to EST containing O family repeat
6583	21275	34412	3.1	8.0E-30	AI567072.1	EST_HUMAN	PT2.1_13_B11.r tumor2 Homo sapiens cDNA 3'
1505	14251		1.03	7.0E-30	BE091133.1	EST_HUMAN	PM4-BT0724-150400-004-d11 BT0724 Homo sapiens cDNA
1766	14508	27209	1.73	6.0E-30	DE2503.1	NT	Human mRNA for integrin alpha subunit, complete cds
3185	15948	28598	2.3	6.0E-30	BE09026.1	EST_HUMAN	QV0-BN0147-290400-214-f12 BN0147 Homo sapiens cDNA
10437	23083	36310	0.48	6.0E-30	AF177271.1	NT	Homo sapiens CTCL tumor antigen se20-10 mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12769	17897		3.38	6.0E-30	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
3894	16742	29376	26.19	5.0E-30	A1399992.1	EST_HUMAN	tg92g03.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2116276 3' similar to contains Alu repetitive element;
5169	25176		6.44	5.0E-30	U87931.1	NT	Human acortable hydratase (ACO2) gene, exon 7
10802	23485		1.95	5.0E-30	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
11103	23773	37047	2.47	5.0E-30	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11103	23773	37048	2.47	5.0E-30	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
2139	14869	27599	1.72	4.0E-30	AW937471.1	EST_HUMAN	QV3-DT0043-090200-080-c06 DT0043 Homo sapiens cDNA
2139	14869	27600	1.72	4.0E-30	AW937471.1	EST_HUMAN	QV3-DT0043-090200-080-c06 DT0043 Homo sapiens cDNA
6756	17925	30560	0.83	4.0E-30	P11369	SWISSPROT	RETROVIRUS-RELATED POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ;
8803	21495	34641	2.82	4.0E-30	AW812488.1	EST_HUMAN	CM1-ST0181-081199-035-f08 ST0181 Homo sapiens cDNA
1129	13895		2.11	3.0E-30	A1338551.1	EST_HUMAN	qq33c05.x1 Soares, total_fetus_Nb2HF8_gw Homo sapiens cDNA clone IMAGE:1938920 3' similar to contains MER29.b2 MER29 repetitive element ;
3740	16493	29128	0.93	3.0E-30	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
7852	20547		0.58	3.0E-30	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
8385	21078		0.48	3.0E-30	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10333	22980	36200	1.7	3.0E-30	BE350127.1	EST_HUMAN	h109g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element ;
10465	23111	36342	0.53	3.0E-30	AB032969.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
10465	23111	36343	0.53	3.0E-30	AB032969.1	NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
11168	23835	37116	2.48	3.0E-30	P34056	SWISSPROT	TRANSCRIPTION FACTOR AP-2
660	13436	26077	0.92	2.0E-30	AW957315.1	EST_HUMAN	CM0-CT0307-310100-158-h03 CT0307 Homo sapiens cDNA
1062	13820		3.11	2.0E-30	F08688.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c-23f05
1462	14209	26896	5.31	2.0E-30	BE176877.1	EST_HUMAN	RC5-HT0582-110400-013-H08 HT0582 Homo sapiens cDNA
2720	15427	28165	8	2.0E-30	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
2920	15696	28331	6.39	2.0E-30	AF114156.1	NT	Homo sapiens Y-linked zinc finger protein (ZFY) gene, complete cds
3769	16521	29100	2.26	2.0E-30	AW206591.1	EST_HUMAN	U1H-B11-af0-c-12-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722558 3'
4727	17459	30095	1.51	2.0E-30	BE298945.1	EST_HUMAN	601119860F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029438 5'
4727	17459	30096	1.51	2.0E-30	BE298945.1	EST_HUMAN	601119860F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029438 5'
6660	19420	32435	0.55	2.0E-30	BF306337.1	EST_HUMAN	601893208F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138983 5'
8375	21068	34208	0.45	2.0E-30	AA019103.1	EST_HUMAN	ze58c10.r1 Soares retina N2b44HR Homo sapiens cDNA clone IMAGE:363186 5'
8435	21128	34265	4.66	2.0E-30	C18939.1	EST_HUMAN	C18939 Human placenta cDNA (TFujivara) Homo sapiens cDNA clone GEN-570C01 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8533	21225	34386	3.61	2.0E-30	BE670617.1	EST_HUMAN	7a37c12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284682 3' similar to SW:DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR ;
8533	21225	34387	3.61	2.0E-30	BE670617.1	EST_HUMAN	7a37c12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284682 3' similar to SW:DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR ;
9897	22647	35741	3.62	2.0E-30	AW971688.1	EST_HUMAN	EST383657 IMAGE resequencing, MAGL Homo sapiens cDNA
9882	22630	35839	7.37	2.0E-30	AW470791.1	EST_HUMAN	h33d06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR b3 THR repetitive element ;
280	13087	25729	16.33	1.0E-30	C18939.1	EST_HUMAN	C18939 Human placenta cDNA (TFujwara) Homo sapiens cDNA clone GEN-570C01 5'
525	13309	25942	2.34	1.0E-30	AW468897.1	EST_HUMAN	h33d06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910991 3' similar to contains MER1.3 MER1 MER1 repetitive element ;
699	13474	26122	2.62	1.0E-30	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
2208	14637	27676	7.16	1.0E-30	AA684377.1	EST_HUMAN	sec77b08.s1 Stratagene lung (#637210) Homo sapiens cDNA clone IMAGE:868589 3'
2484	15182	27921	2.01	1.0E-30	BF347728.1	EST_HUMAN	602022560F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157991 5'
3050	15816	28461	0.94	1.0E-30	AA315045.1	EST_HUMAN	EST188868 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end
7624	20290	33399	2.46	1.0E-30	BF183290.1	EST_HUMAN	607809832F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040894 5'
12581	25288		6.95	1.0E-30	H55593.1	EST_HUMAN	CHR220532 Chromosome 22 exon Homo sapiens cDNA clone C22_728 5'
3748	16501	29135	0.81	9.0E-31	T73025.1	EST_HUMAN	yc65e06.r1 Stratagene liver (#637224) Homo sapiens cDNA clone IMAGE:85570 5'
3748	16501	29136	0.81	9.0E-31	T73025.1	EST_HUMAN	yc65e06.r1 Stratagene liver (#637224) Homo sapiens cDNA clone IMAGE:85570 5'
8223	20917	34053	0.81	9.0E-31	R18214.1	EST_HUMAN	y99b08.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:30566 5' similar to gb:X12953 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8223	20917	34054	0.81	9.0E-31	R18214.1	EST_HUMAN	y99b08.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:30566 5' similar to gb:X12953 RAS- RELATED PROTEIN RAB-2 (HUMAN);
8522	21214		1.63	9.0E-31	Z38283.1	EST_HUMAN	HSC05F032 normalized infant brain cDNA Homo sapiens cDNA clone c-05f03 3'
8524	21216	34359	0.48	9.0E-31	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
1054	13813	26473	2.41	8.0E-31		NT	Homo sapiens hypothetical protein FLJ20420 (FLJ20420), mRNA
2414	15135		4.6	8.0E-31	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
4861	17560	30213	1.43	8.0E-31	P23275	SWISSPROT	OLFACTORY RECEPTOR 15 (OR3)
4861	17560	30214	1.43	8.0E-31	P23275	SWISSPROT	OLFACTORY RECEPTOR 15 (OR3)
2674	15383	28123	3.29	7.0E-31	BE326517.1	EST_HUMAN	hw05a11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012 3'
2674	15383	28124	3.29	7.0E-31	BE326517.1	EST_HUMAN	hw05a11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012 3'
8300	20894	34130	0.96	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds
8300	20894	34131	0.96	7.0E-31	AF208541.1	NT	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds

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9166	21836		0.94	7.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
12434	24805	31044	2.26	7.0E-31	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
3667	18420		2.86	6.0E-31	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8053	20747		4.37	6.0E-31	AF055066.1	NT	Homo sapiens MHC class 1 region
8229	20923	34062	0.86	6.0E-31	BE350127.1	EST_HUMAN	ht09g01.x1 NCL_CGAP_Kld13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 b3
12169	25195		1.96	6.0E-31	BE804488.1	EST_HUMAN	MER29 repetitive element;
187	13000	25640	3.58	5.0E-31	M60594.1	NT	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
187	13000	25641	3.58	5.0E-31	M60594.1	NT	Homo sapiens type I DNA topoisomerase gene, exon 8
8344	21037		0.73	5.0E-31	BF056540.1	EST_HUMAN	7k06f04.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3443479 3' similar to TR:Q13537 Q13537
592	13362		5.18	4.0E-31	AJ271736.1	NT	SIMILAR TO POGO ELEMENT; contains L1.11 L1 repetitive element;
							Homo sapiens Xq pseudautosomal region; segment 1/2
1606	14352	27040	0.91	4.0E-31	Q10473	SWISSPROT	POLYPEPTIDE N-ACETYL GALACTOSAMINYL TRANSFERASE (PROTEIN-UDP
1810	14550		1.57	4.0E-31	AL163280.2	NT	ACETYL GALACTOSAMINYL TRANSFERASE (UDP-GALNAC:POLYPEPTIDE, N-
2792	15497		1.23	4.0E-31	5730038	NT	ACETYL GALACTOSAMINYL TRANSFERASE (GALNAC-T1)
12205	24672		1.88	4.0E-31	AJ230125.1	NT	Homo sapiens chromosome 21 segment HS21C080
12457	24826		1.88	4.0E-31	11430273	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
7239	18824	32999	12.23	3.0E-31	4826853	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
7393	20072	33151	1.26	3.0E-31	11420329	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8 (19kd, ASH1) (NDUFB8) mRNA
8061	20755		2	3.0E-31	AL163206.2	NT	Homo sapiens hypothetical protein FLJ10842 (FLJ10842), mRNA
9479	22132	35312	3.7	3.0E-31	D14523.1	NT	Homo sapiens chromosome 21 segment HS21C006
10498	23144	36371	0.54	3.0E-31	AA421242.1	EST_HUMAN	Horse mRNA for ferritin L-chain, complete cds
10527	23224	36458	2.04	3.0E-31	P11174	SWISSPROT	z006404.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731047 5'
11819	23771		3.65	3.0E-31	BF05327.1	EST_HUMAN	40S RIBOSOMAL PROTEIN S15 (RIG PROTEIN)
12810	25059		1.88	3.0E-31	AB037763.1	NT	601458631F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
1910	14647	27358	1.37	2.0E-31	AW838171.1	EST_HUMAN	Homo sapiens mRNA for KIAA1342 protein, partial cds
2211	14939	27677	1.09	2.0E-31	A1383388.1	EST_HUMAN	QV2-LT0051-260300-111-403 LT0051 Homo sapiens cDNA
2339	15082	27800	1.89	2.0E-31	AL118245.1	EST_HUMAN	tg44g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2111672 3'
2442	15161	27898	4.01	2.0E-31	AA458824.1	EST_HUMAN	DKFZp761G1513 t1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G1513 5'
							aa88f11.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413 3' similar to contains THR.t2 THR repetitive element;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6193	18001	30824	0.81	2.0E-31	AW444496.1	EST_HUMAN	UIH-B13-ekb-f-09-0-J1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733833 3'
5624	18421	31334	3.57	2.0E-31	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_K1d13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
8975	21005		2.05	2.0E-31	AA877764.1	EST_HUMAN	nr06f04.s1 NCI_CGAP_Cat10 Homo sapiens cDNA clone IMAGE:1161055 3' similar to TR:Q13537 Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.;
9107	21795	34959	3.94	2.0E-31	7681535	NT	Homo sapiens B9 protein (B9), mRNA
8806	22457	35661	0.94	2.0E-31	AV710948.1	EST_HUMAN	AV710948 Cu Homo sapiens cDNA clone CuAALB07 5'
8806	22457	35662	0.94	2.0E-31	AV710948.1	EST_HUMAN	AV710948 Cu Homo sapiens cDNA clone CuAALB07 5'
9975	22623	35829	2.35	2.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
9975	22623	35830	2.35	2.0E-31	BE408611.1	EST_HUMAN	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'
12144	24632		1.56	2.0E-31	AF148512.1	NT	Homo sapiens hexokinase II gene, promoter region
12279	25413		1.75	2.0E-31	A1114527.1	EST_HUMAN	HA11110 Human fetal liver cDNA library Homo sapiens cDNA
15	12842	25456	11.09	1.0E-31	U93163.1	NT	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
1698	14404	27092	1.35	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
1698	14404	27093	1.35	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
1698	14404	27094	1.35	1.0E-31	O95371	SWISSPROT	OLFACTORY RECEPTOR 2C1
4592	17327	28952	1.15	1.0E-31	AL134376.1	EST_HUMAN	DKFZp547B235_r1 547 (synonym: hfbt1) Homo sapiens cDNA clone DKFZp547B235 5'
4592	17327	28953	1.15	1.0E-31	AL134376.1	EST_HUMAN	DKFZp547B235_r1 547 (synonym: hfbt1) Homo sapiens cDNA clone DKFZp547B235 5'
5210	18018	30840	3.79	1.0E-31	AW391679.1	EST_HUMAN	MR3-ST0220-151298-028-e08_1 ST0220 Homo sapiens cDNA
6042	18822	31782	2.2	1.0E-31	AF048727.1	NT	Homo sapiens minisatellite ccb1 repeat region
7189	19875	32948	1	1.0E-31	AF126145.1	NT	Bos taurus xenobiotic/medium-chain fatty acid:CoA ligase form XL-III mRNA, nuclear mRNA encoding mitochondrial protein, complete cds
10136	22784	35995	0.51	1.0E-31	U93163.1	NT	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
10833	23515	36757	2.7	1.0E-31	A1086434.1	EST_HUMAN	q21h03.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750709 3' similar to TR:Q16595 Q16595 FRATAXIN.;
11830	24414	37752	1.48	1.0E-31	U68001.1	NT	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV16S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P, TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2,>
6542	19307	32312	2.38	9.0E-32	AV723976.1	EST_HUMAN	AV723976 HTB Homo sapiens cDNA clone HTBAAG01 5'
7492	20164		0.66	9.0E-32	11430822	NT	Homo sapiens hypothetical protein FLJ11294 (FLJ11294), mRNA
2070	14802	27530	2.48	8.0E-32	A1056770.1	EST_HUMAN	oz15a09.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1675384 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6394	18194	30887	0.97	8.0E-32	AW997214.1	EST_HUMAN	RC2-BN0048-200300-015-e04 BN0048 Homo sapiens cDNA
4807	17538	30181	0.98	7.0E-32	P52591	SWISSPROT	NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 (PORE MEMBRANE PROTEIN OF 121 KD) (P145)
12122	24914		8.19	7.0E-32	X17283.1	NT	Human chromosome 22 Immunoglobulin V(K) gene, part with 5' breakpoint between orphion and neighbouring non-empirical region
2735	15442	28180	1.01	8.0E-32	A1478104.1	EST_HUMAN	tm34a10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2159894 3' similar to contains MER29.13
7266	19950		1.47	6.0E-32	BE888016.1	EST_HUMAN	MER29 repetitive element;
1011	13771	28431	16.78	5.0E-32	AF116927.1	NT	601511530F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5'
910	13677		1.76	4.0E-32	AL163246.2	NT	Homo sapiens PRO1181 mRNA, complete cds
5148	17867		0.91	4.0E-32	A1985593.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
7503	20174	33266	2.94	4.0E-32	11432574	NT	ws08h12x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2496647 3' similar to contains MER18.b3
7503	20174	33267	2.94	4.0E-32	11432574	NT	MER18 repetitive element;
8257	20951		1.2	4.0E-32	BE064410.1	EST_HUMAN	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
443	13229	25872	3.7	3.0E-32	Y17293.1	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
1437	14184	26870	8.08	3.0E-32	AV731500.1	EST_HUMAN	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA
9294	21961	35135	8.38	3.0E-32	AV758634.1	EST_HUMAN	Homo sapiens FLI-1 gene, partial
9294	21961	35136	8.38	3.0E-32	AV758634.1	EST_HUMAN	AV731500 HTF Homo sapiens cDNA clone HTFAK007 5'
10843	23525	36788	3.57	3.0E-32	AA777821.1	EST_HUMAN	AV758634 BM Homo sapiens cDNA clone BMFBHH12 5'
12146	24634		3.51	3.0E-32	BE279086.1	EST_HUMAN	AV758634 BM Homo sapiens cDNA clone BMFBHH12 5'
12507	17899	30598	2.97	3.0E-32	5174574	NT	z89607.s1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR13 THR repetitive element;
12607	17899	30597	2.97	3.0E-32	5174574	NT	601156285F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139701 5'
12666	24956	31902	0.81	2.0E-32	M35418.1	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog), translocated to, 4 (MLLT4) mRNA
6158	18935	32155	5.32	2.0E-32	Z38133.1	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog), translocated to, 4 (MLLT4) mRNA
6387	19156	32156	5.32	2.0E-32	Z38133.1	NT	Human cell 12-oxopentanoate mRNA, complete cds
8176	20870	34003	2.26	2.0E-32	AA114294.1	EST_HUMAN	H. sapiens mRNA for myosin
8176	20870	34004	2.26	2.0E-32	AA114294.1	EST_HUMAN	H. sapiens mRNA for myosin
11859	24443	37784	2.96	2.0E-32	T18862.1	EST_HUMAN	z89608.r1 Stratiogene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'
12763	25022	30961	2.42	2.0E-32	AV736449.1	EST_HUMAN	z89608.r1 Stratiogene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12763	25022	30662	2.42	2.0E-32	AV738449.1	EST_HUMAN	AV738449 CB Homo sapiens cDNA clone CBF1A08 5'
3090	15855		1.67	1.0E-32	BE743298.1	EST_HUMAN	601573207F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834433 5'
6055	19437	32453	7.02	1.0E-32	11439789	NT	Homo sapiens chromosome 11 open reading frame 9 (C11ORF9), mRNA
8494	21189	34329	8.08	1.0E-32	AA720574.1	EST_HUMAN	hw21g02.s1 NCI_CGAP_GC80 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.13 THR repetitive element;
3474	16230		4.58	9.0E-33	BE327112.1	EST_HUMAN	hw07c05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182216 3' similar to TR:O88539 O88539 WW DOMAIN BINDING PROTEIN 11.;
6326	19096		4.05	9.0E-33	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8687	21379	34623	1.95	9.0E-33	BF347229.1	EST_HUMAN	602021164F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156870 5'
10701	23392		5.22	9.0E-33	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
58	12887	25517	3.14	7.0E-33	5031736	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
58	12887	25518	3.14	7.0E-33	5031736	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
2158	14888	27622	2.29	7.0E-33	AI590115.1	EST_HUMAN	hw21g02.s1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2178809 3' similar to contains OFR.11 OFR repetitive element;
2655	16365		6.45	7.0E-33	AV730056.1	EST_HUMAN	AV730056 HTF Homo sapiens cDNA clone HTFAVE06 5'
3236	15998		9.3	7.0E-33	AW971307.1	EST_HUMAN	EST383398 MAGI resequences, MAGL Homo sapiens cDNA
8845	21537		1.56	7.0E-33	X54890.1	NT	Human hLRP mRNA for leukocyte common antigen-related peptide (protein-tyrosine phosphate) (EC 3.1.3.48)
10732	23419	36660	2.41	7.0E-33	BF347229.1	EST_HUMAN	602021164F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156870 5'
11213	23676	37162	1.93	7.0E-33	AW971568.1	EST_HUMAN	EST383367 MAGI resequences, MAGL Homo sapiens cDNA
12127	24619	31090	4.34	7.0E-33	AA601416.1	EST_HUMAN	hw21g02.s1 NCI_CGAP_Pher1 Homo sapiens cDNA clone IMAGE:1100881 3' similar to contains L1.1 L1 repetitive element;
3720	10473		0.94	6.0E-33	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5976	18758	31720	0.96	6.0E-33	F30631.1	EST_HUMAN	HSPD21201 HM3 Homo sapiens cDNA clone s4000107H06
5976	18758	31721	0.96	6.0E-33	F30631.1	EST_HUMAN	HSPD21201 HM3 Homo sapiens cDNA clone s4000107H06
8478	21170	34315	9.33	6.0E-33	J04038.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) gene, complete cds
8603	21295	34438	3.09	6.0E-33	11429198	NT	Homo sapiens similar to RAD23 (S. cerevisiae) homolog B (H. sapiens) (LOC63277), mRNA
9910	22559	35754	1.12	6.0E-33	6755609	NT	Mus musculus SRY-box containing gene 6 (Sax6), mRNA
9910	22559	35755	1.12	6.0E-33	6755609	NT	Mus musculus SRY-box containing gene 6 (Sax6), mRNA
1770	14512		1.46	5.0E-33	BF373515.1	EST_HUMAN	QV1-FT0169-100700-271-402 FT0169 Homo sapiens cDNA
1874	14612		1.19	5.0E-33	11141884	NT	Homo sapiens solute carrier family 5 (choline transporter), member 7 (SLC5A7), mRNA
1891	14628	27337	1.43	5.0E-33	4507208	NT	Homo sapiens spermidine synthase (SRM) mRNA
1891	14628	27338	1.43	5.0E-33	4507208	NT	Homo sapiens spermidine synthase (SRM) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2270	14996		1.29	5.0E-33	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
10148	22796	36010	0.8	5.0E-33	AW284679.1	EST_HUMAN	xq33f11.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2752461 3'
10148	22796	36011	0.8	5.0E-33	AW284679.1	EST_HUMAN	xq33f11.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2752461 3'
1106	13963		2.16	4.0E-33	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
2121	14852	27581	1.64	4.0E-33	4759987	NT	Homo sapiens RAB1, member RAS oncogene family (RAB1) mRNA
2419	15140		2.02	4.0E-33	AA626621.1	EST_HUMAN	ab51b11.r1 Stratagene lung carcinoma 837218 Homo sapiens cDNA clone IMAGE:844317 5' similar to contains Alu repetitive element; contains MER28.b2 MER28 repetitive element ;
2547	15262	27999	4.15	4.0E-33	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4450	17188	29811	2.15	4.0E-33	AW293349.1	EST_HUMAN	UHH-B12-ah1-o-03-Q1J1.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727149 3'
5318	18122	30779	24.73	4.0E-33	AA053053.1	EST_HUMAN	Z71a08.r1 Stratagene colon (#837204) Homo sapiens cDNA clone IMAGE:510038 5' similar to gb:X12871.m1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
6299	19072	32057	0.87	4.0E-33	8393904	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
6299	19072	32058	0.87	4.0E-33	8393994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
1067	13825		5.5	3.0E-33	BE350127.1	EST_HUMAN	h109g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element ;
1068	13825		3.89	3.0E-33	BE350127.1	EST_HUMAN	h109g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element ;
2451	15595		0.92	3.0E-33	AV647851.1	EST_HUMAN	AV647851 GLC Homo sapiens cDNA clone GLCFCF09 3'
10338	22985	36203	1.04	3.0E-33	AA861510.1	EST_HUMAN	ak32b12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1407647 3' similar to TR:Q13579 Q13579 MARINER TRANSPOSASE. ;
102	12843		3.21	2.0E-33	A160189.1	EST_HUMAN	q67g03.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.H1 OFR repetitive element ;
4385	17122		5.39	2.0E-33	BE169039.1	EST_HUMAN	MR0-HT0405-160300-202-408 HT0405 Homo sapiens cDNA
4926	17653	30285	28.91	2.0E-33	AA626683.1	EST_HUMAN	ab51g11.r1 Stratagene lung carcinoma 837218 Homo sapiens cDNA clone IMAGE:844388 5' similar to gb:X00794.cds1 TUBULIN BETA-5 CHAIN (HUMAN);
5033	17753	30365	2.75	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
5033	17753	30366	2.75	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
6329	19099	32087	1.81	2.0E-33	AI277492.1	EST_HUMAN	q66d01.x1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:1880161 3'
8698	21688		2.18	2.0E-33	AI052256.1	EST_HUMAN	cc21403.x1 Soares_fetal_liver_epilepsy_1NLS_S1 Homo sapiens cDNA clone IMAGE:1675673 3' similar to gb:M28636 TRANSLATIONAL INITIATION FACTOR 2 BETA SUBUNIT (HUMAN);
10513	23169	36384	1.48	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
10513	23169	36385	1.48	2.0E-33	11421332	NT	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
11046	23716	36985	1.26	2.0E-33	AA463647.1	EST_HUMAN	z44805.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:795489 3' similar to TR:G1263081 G1263081 MARINER TRANSPOSASE. ;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8	12835		1.16	1.0E-33	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
5156	17873	30485	2.46	1.0E-33	4502556	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
5501	18299	31188	0.58	1.0E-33	AF199420.1	NT	Homo sapiens F-box protein FBL4 (FBL4) mRNA, complete cds
7307	19990	33067	1.04	1.0E-33	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
9920	25432		0.84	1.0E-33	U60822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
11292	23953	37251	1.83	1.0E-33	AW986818.1	EST_HUMAN	QV3-BN0047-230200-102-b03 BN0047 Homo sapiens cDNA
11663	24259	37581	3.32	1.0E-33	U60822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
12407	24780		2.21	1.0E-33	A1927191.1	EST_HUMAN	w088c06.x1 NCL_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2462410 3'
12570	12835		4.07	1.0E-33	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12602	24914	31005	1.41	1.0E-33	AV727809.1	EST_HUMAN	AV727809 HTC Homo sapiens cDNA clone HTCCNG12 5'
12780	25034		1.61	9.0E-34	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
2168	14897	27631	0.98	8.0E-34	8922751	NT	Homo sapiens hypothetical protein FLJ10900 (FLJ10900), mRNA
7689	20353	33468	0.66	8.0E-34	BE069882.1	EST_HUMAN	MR4-BT0399-200100-001-h03 BT0399 Homo sapiens cDNA
1426	14173	26858	2.27	7.0E-34	T70845.1	EST_HUMAN	y415a05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108320 5'
9900	14173	26858	0.56	7.0E-34	T70845.1	EST_HUMAN	y415a05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108320 5'
12191	24662		3.05	7.0E-34	H12885.1	EST_HUMAN	y14c10.r1 Soares placenta Nb2f-IP Homo sapiens cDNA clone IMAGE:148722 5'
458	13243	25884	2.3	6.0E-34	U10891.1	NT	Human G2 protein mRNA, partial cds
458	13243	25885	2.3	6.0E-34	U10891.1	NT	Human G2 protein mRNA, partial cds
12011	24544	31107	2.13	6.0E-34	U03886.1	NT	Mus musculus DAB/2J hair-specific (haci-1) gene
1873	14611		2.9	5.0E-34	7706500	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51729), mRNA
5002	17725	30328	3.81	5.0E-34	U30883.1	NT	Human splicing factor SRP65-1 (SRP-65) mRNA, complete cds
8765	21457	34807	1.37	5.0E-34	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10550	23246	36482	2.24	5.0E-34	AB037858.1	NT	Homo sapiens mRNA for KIAA1435 protein, partial cds
11219	23882		1.79	5.0E-34	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
1991	14727	27449	1.84	4.0E-34	AI804687.1	EST_HUMAN	1894c06.x1 NCL_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2249194 3'
5770	18561	31488	0.64	4.0E-34	AA861773.1	EST_HUMAN	ak35c01.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1407938 3'
8936	21827	34769	1.26	4.0E-34	BF209778.1	EST_HUMAN	601874950F1 NH_MGC_54 Homo sapiens cDNA clone IMAGE:4102213 5'
6138	18916	31886	0.78	3.0E-34	M37277.1	NT	Human Ig gamma H-chain D-region genes, partial cds
11100	23770		3.14	3.0E-34	BF035327.1	EST_HUMAN	60145831F1 NH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
8850	21541	34687	1.16	2.0E-34	AI678101.1	EST_HUMAN	w035g08.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains MER29.12 MER29 repetitive element;

Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8850	21541	34688	1.16	2.0E-34	AI678101.1	EST_HUMAN	wd3506.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2330170 3' similar to contains
11113	23783	37057	1.34	2.0E-34	P51805	SWISSPROT	MER2912 MER29 repetitive element ;
11113	23783	37058	1.34	2.0E-34	P51805	SWISSPROT	PLEXIN 4 PRECURSOR (TRANSMEMBRANE PROTEIN SEX)
1494	14241	28928	6.53	1.0E-34	P12236	SWISSPROT	PLEXIN 4 PRECURSOR (TRANSMEMBRANE PROTEIN SEX)
3663	16416	29055	1.32	1.0E-34	AF003528.1	NT	ADP ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE
4051	16796	29425	0.97	1.0E-34	AY009397.1	NT	NUCLEOTIDE TRANSLOCATOR 3 (ANT 3)
4051	16796	29426	0.97	1.0E-34	AY009397.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
4446	17182	31788	3.44	1.0E-34	BE071414.1	EST_HUMAN	regions
6047	18827	31788	2.05	1.0E-34	BE074052.1	EST_HUMAN	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
6047	18827	31789	2.05	1.0E-34	BE074052.1	EST_HUMAN	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
9225	21904	35076	0.45	1.0E-34	P28266	SWISSPROT	Homo sapiens WNT3 precursor (WNT3) mRNA, complete cds
9506	22249	35434	7.1	1.0E-34	AL036635.1	EST_HUMAN	RC2-BT0508-240400-016-h08 BT0506 Homo sapiens cDNA
11138	23805	37083	1.39	1.0E-34	BE781790.1	EST_HUMAN	601484430F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886999 5'
11138	23805	37084	1.39	1.0E-34	BE781790.1	EST_HUMAN	601484430F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886999 5'
11153	23820	37100	1.82	1.0E-34	11439590	NT	601470592F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478 5'
12372	25350		1.65	1.0E-34	AA807097.1	EST_HUMAN	601470592F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478 5'
12593	24949		4.22	1.0E-34	AL163210.2	NT	601470592F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873478 5'
3636	16389	29029	1.2	9.0E-35	AW663302.1	EST_HUMAN	Homo sapiens nucleobindin 2 (NUCB2), mRNA
218	13029		7.71	8.0E-35	6031190	NT	cc31c11.s1 NCI_CGAP_G081 Homo sapiens cDNA clone IMAGE:1351316 3' similar to gb:X68203
1730	14472	27171	3.43	8.0E-35	BF589937.1	EST_HUMAN	TYROSINE-PROTEIN KINASE RECEPTOR FL4 PRECURSOR (HUMAN);
1730	14472	27172	3.43	8.0E-35	BF589937.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
4814	17545	30170	2.69	8.0E-35	BF183195.1	EST_HUMAN	hh77b06.y1 NCI_CGAP_G01 Homo sapiens cDNA clone IMAGE:2968787 5'
10589	23283	36522	2.42	8.0E-35	BE378480.1	EST_HUMAN	Homo sapiens prohibitin (PHB) mRNA
12119	24611		3.95	8.0E-35	BF569282.1	EST_HUMAN	ncs33a08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
6393	19162	32163	2.05	7.0E-35	11425417	NT	ncs33a08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:O75912
1391	14138	28815	1.83	8.0E-35	AA767115.1	EST_HUMAN	O75912 DIACYLGLYCEROL KINASE IOTA ;
1990	14696	27409	2.09	6.0E-35	6005975	EST_HUMAN	O75912 DIACYLGLYCEROL KINASE IOTA ;
4030	16775	29406	0.84	6.0E-35	AW297191.1	EST_HUMAN	601809598F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040324 5'
							601238468F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608513 5'
							602184624T1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300680 3'
							Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
							ah53h03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1308397 3'
							Homo sapiens zifio finger protein 208 (ZNF208), mRNA
							UIH-BW0-qld-d-09-UJ.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2731433 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7798	20493	33615	3.84	6.0E-35	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
8610	21302	34445	0.93	6.0E-35	X94232.1	NT	H. sapiens mRNA for novel T-cell activation protein
8610	21302	34446	0.93	6.0E-35	X94232.1	NT	H. sapiens mRNA for novel T-cell activation protein
9565	22218	35403	0.86	6.0E-35	AB002364.1	NT	Human mRNA for KIAA0368 gene, partial cds
9803	22454	35666	3.17	6.0E-35	AB037786.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
1704	14447	27146	1.36	5.0E-35	X63392.1	NT	H. sapiens immunoglobulin kappa light chain variable region L14
2787	15492	28232	1.07	5.0E-35	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
3008	15776	28424	1.7	5.0E-35	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
4378	17113	28746	1.7	5.0E-35	AF023288.1	NT	Homo sapiens cdk2 kinase (CLK2), propin1, cote1, glucocorticoid-induced (GBA), and metadase genes, complete cds; metadase pseudogene and glucocorticoid-induced pseudogene; and thrombospondin3 (THBS3) gene, partial cds
8084	20778		3.99	5.0E-35	BE90992.1	EST_HUMAN	601431984F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917229 5'
8109	20803	33936	2.35	5.0E-35	AI208765.1	EST_HUMAN	qg38c05.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1837448 3' similar to SW:Y249 HUMAN Q92539 HYPOTHETICAL PROTEIN KIAA0249 ;
8109	20803	33937	2.35	5.0E-35	AI208765.1	EST_HUMAN	qg38c05.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1837448 3' similar to SW:Y249 HUMAN Q92539 HYPOTHETICAL PROTEIN KIAA0249 ;
11130	23798		2.46	5.0E-35	AA001786.1	EST_HUMAN	zh84f12.f1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:428015 5'
1413	14161	26845	16.86	4.0E-35	BE257907.1	EST_HUMAN	601108719F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350405 5'
1811	14551	27265	4.87	4.0E-35	H91193.1	EST_HUMAN	yv08a07.f1 Soares fetal liver spleen_1NFLS Homo sapiens cDNA clone IMAGE:241238 5' similar to contains PTR5 repetitive element ;
4753	17485		0.72	4.0E-35	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
7108	19796		1.81	4.0E-35	BE350127.1	EST_HUMAN	h039g01.x1 NCI_CGAP_Kd13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element ;
8416	21109	34248	8.88	4.0E-35	ALD46596.1	EST_HUMAN	DKFZp434L148.J1 434 (synonym: hbes3) Homo sapiens cDNA clone DKFZp434L148 5'
11729	24322	37646	1.38	4.0E-35	AW303317.1	EST_HUMAN	xv17f03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813405 3' similar to contains Alu repetitive element; contains MER19.12 MER19 repetitive element ;
1573	14320	27006	7.78	3.0E-35	BE268182.1	EST_HUMAN	601125260F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345063 5'
2330	15055		1.5	3.0E-35	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
5256	18062	30690	31.47	3.0E-35	BF433100.1	EST_HUMAN	7n25a09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7 Q9QZH7 F-BOX PROTEIN FBL2 ;
5256	18062	30691	31.47	3.0E-35	BF433100.1	EST_HUMAN	7n25a09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7 Q9QZH7 F-BOX PROTEIN FBL2 ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9388	22060		1.42	3.0E-35	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10074	22722	35839	1.12	3.0E-35	AW003063.1	EST_HUMAN	Wt03a05.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2480432 3' similar to SW:POL1_HUMAN P10286 RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE :
108	15535	25567	1.88	2.0E-35	N88965.1	EST_HUMAN	K6932F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 5' similar to REPETITIVE ELEMENT
1165	13919	26582	1.55	2.0E-35	T11909.1	EST_HUMAN	A971F Heart Homo sapiens cDNA clone A971
2215	14943	27683	5.73	2.0E-35	AB018413.1	NT	Homo sapiens mRNA for Gab2, complete cds
3306	16066	28714	1.12	2.0E-35	6912459	NT	Homo sapiens Grb2-associated binder 2 (KIAA00571), mRNA
3308	16066	28715	1.12	2.0E-35	6912459	NT	Homo sapiens Grb2-associated binder 2 (KIAA00571), mRNA
3545	16300		0.94	2.0E-35	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
3890	16940	29279	0.78	2.0E-35	BE247575.1	EST_HUMAN	TCBAPZE4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4328
3890	16940	29280	0.78	2.0E-35	BE247575.1	EST_HUMAN	TCBAPZE4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4328
4621	17356		2.57	2.0E-35	H49239.1	EST_HUMAN	Yq19a12.l1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:274079 5'
5495	18294	31192	2.7	2.0E-35	BF332417.1	EST_HUMAN	QV0-BT0701-210400-199-b04 BT0701 Homo sapiens cDNA
7004	19096	32749	0.95	2.0E-35	BE832636.1	EST_HUMAN	CM2-MT0125-280700-297-G02 MT0125 Homo sapiens cDNA
7004	19096	32750	0.95	2.0E-35	BE832636.1	EST_HUMAN	CM2-MT0125-280700-297-G02 MT0125 Homo sapiens cDNA
7775	20471	33593	0.45	2.0E-35	AV723718.1	EST_HUMAN	AV723718 HTB Homo sapiens cDNA clone HTBAYA10 5'
7775	20471	33594	0.45	2.0E-35	AV723718.1	EST_HUMAN	AV723718 HTB Homo sapiens cDNA clone HTBAYA10 5'
10697	23388	36626	2.24	2.0E-35	X59417.1	NT	H. sapiens PROS-27 mRNA
11817	18294	31192	1.28	2.0E-35	BF332417.1	EST_HUMAN	QV0-BT0701-210400-199-b04 BT0701 Homo sapiens cDNA
11899	16068	28714	1.72	2.0E-35	6912459	NT	Homo sapiens Grb2-associated binder 2 (KIAA00571), mRNA
11899	16068	28715	1.72	2.0E-35	6912459	NT	Homo sapiens Grb2-associated binder 2 (KIAA00571), mRNA
12062	24577	31120	1.36	2.0E-35	BE904978.1	EST_HUMAN	G01496774F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898699 5'
12062	24577	31121	1.36	2.0E-35	BE904978.1	EST_HUMAN	G01496774F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898699 5'
12572	24900		5.96	2.0E-35	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
12699	15535	25567	1.58	2.0E-35	N88965.1	EST_HUMAN	K6932F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 5' similar to REPETITIVE ELEMENT
45	12874	25496	6.81	1.0E-35	AA631949.1	EST_HUMAN	frifc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
45	12874	25497	6.81	1.0E-35	AA631949.1	EST_HUMAN	frifc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
735	13509	26165	19.5	1.0E-35	AW389473.1	EST_HUMAN	IL2-ST0162-131099-008-d12 ST0162 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
735	13509	26166	19.5	1.0E-35	AW389473.1	EST_HUMAN	IL2-ST0162-131089-008-d12 ST0162 Homo sapiens cDNA
889	13658		1.3	1.0E-35	T87947.1	EST_HUMAN	yt93a01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA IMAGE:115752 5' similar to SP:A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
2544	15258	27996	1.68	1.0E-35	7705994	NT	Homo sapiens hypothetical protein (LOC51293), mRNA
2770	15475	28217	1.09	1.0E-35	BE350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 b3
2770	15475	28217	1.09	1.0E-35	BE350127.1	EST_HUMAN	MER29 repetitive element ;
2770	15475	28218	1.09	1.0E-35	BE350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 b3
3140	15904	28549	1.81	1.0E-35	6006030	NT	MER29 repetitive element ;
3161	15924	28570	3.3	1.0E-35	AV650422.1	EST_HUMAN	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCEB1L) mRNA
3161	15924	28571	3.3	1.0E-35	AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLCCEFO8 3'
4388	17125	29756	3.93	1.0E-35	7656905	NT	AV650422 GLC Homo sapiens cDNA clone GLCCEFO8 3'
4388	17125	29757	3.93	1.0E-35	7656905	NT	Mus musculus activin receptor interacting protein 1 (Arip1-pending), mRNA
5423	18222	30934	1.41	1.0E-35	11526236	NT	Mus musculus activin receptor interacting protein 1 (Arip1-pending), mRNA
7383	20063	33141	0.86	1.0E-35	AB033105.1	NT	Homo sapiens chromatin assembly factor 1, subunit B (p80) (CHAF1B), mRNA
7841	20211	33311	1.18	1.0E-35	11418002	NT	Homo sapiens mRNA for KIAA1279 protein, partial cds
8442	25125	35297	2.18	1.0E-35	AU158595.1	EST_HUMAN	Homo sapiens KIAA0845 gene product (KIAA0845), mRNA
8442	25125	35298	2.18	1.0E-35	AU158595.1	EST_HUMAN	AU158595 PLACE3 Homo sapiens cDNA clone PLACE3000382 3'
10477	23123	36352	0.7	1.0E-35	BF588994.1	EST_HUMAN	AU158595 PLACE3 Homo sapiens cDNA clone PLACE3000382 3'
10477	23123	36353	0.7	1.0E-35	BF588994.1	EST_HUMAN	nao06006.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR:O31341
11758	24349	37680	1.46	1.0E-35	AB028980.1	NT	nao06006.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR:O31341
11758	24349	37681	1.46	1.0E-35	AB028980.1	NT	O31341 BETA-GALACTOSIDASE ;
11768	24359		1.91	1.0E-35	AI525119.1	EST_HUMAN	Homo sapiens mRNA for KIAA1057 protein, partial cds
11917	25313		1.37	1.0E-35	11418274	NT	promme-7.D01.r bvtumor Homo sapiens cDNA 5'
12121	24613		1.63	1.0E-35	11418110	NT	Homo sapiens fibulin 1 (FBLN1), mRNA
12471	24837		2.13	1.0E-35	BE792832.1	EST_HUMAN	Homo sapiens casein kinase 1, epsilon (CSNK1E), mRNA
9129	21817	34983	0.56	8.0E-36	AA348480.1	EST_HUMAN	60158483F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938985 5'
2831	15697	28344	1.1	7.0E-36	AW857579.1	EST_HUMAN	EST54838 Hippocampus II Homo sapiens cDNA 5' end similar to similar to endogenous retrovirus 9, 5' LTR
3116	15881		3.84	7.0E-36	4657498	NT	GM1-CT0315-091299-063-d07 CT0315 Homo sapiens cDNA
7554	20224	33327	5.92	7.0E-36	U06672.1	NT	Homo sapiens C-terminal binding protein 2 (CTBP2) mRNA
7554	20224	33328	5.92	7.0E-36	U06672.1	NT	Human carcinoembryonic antigen gene family member 12 (CGM12) gene, exons L and LN
7554	20224	33328	5.92	7.0E-36	U06672.1	NT	Human carcinoembryonic antigen gene family member 12 (CGM12) gene, exons L and LN

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1908	14734	27456	2	6.0E-36	7706822	NT	Homo sapiens nhlh2 2 (NHL2), mRNA
2418	15139		5.58	6.0E-36	AB035346.1	NT	Homo sapiens TOL6 gene, exon 12
3630	16383	29023	0.71	6.0E-36	BF515101.1	EST_HUMAN	UIH-BW1-emb-c-12-Q-UL.s1 NCI CGAP Sub7 Homo sapiens cDNA clone IMAGE:3083542 3'
5248	18054	30682	3.54	6.0E-36	AI435169.1	EST_HUMAN	th93b00.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2128196 3' similar to gb:M111949 PANGREATIC SECRETORY TRYPSIN INHIBITOR PRECURSOR (HUMAN);
7009	19701	32758	3.57	6.0E-36	AW780143.1	EST_HUMAN	h06h02.x1 NCI CGAP C014 Homo sapiens cDNA clone IMAGE:3036627 3' similar to SW:IMA2_HUMAN
8550	21242	34385	2.33	6.0E-36	AF208161.1	NT	P52292 IMPORTIN ALPHA-2 SUBUNIT ;
10125	22773		0.51	6.0E-36	C16927.1	EST_HUMAN	Homo sapiens synovial precursor, mRNA, complete cds
11538	24136	37443	3.11	6.0E-36	AI380499.1	EST_HUMAN	C16927 Clontech human aorta polyA+ mRNA (#9572) Homo sapiens cDNA clone GEN-535G11 5'
134	12949	25592	10.74	5.0E-36	AJ271735.1	NT	th95c09.x1 NCI CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107024 3' similar to contains MEIR9.b2
2756	15460	28202	5.75	5.0E-36	BE388436.1	EST_HUMAN	MER9 repetitive element ;
3590	16352	28991	1.45	5.0E-36	AL163209.2	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
4736	17468	30104	2.15	5.0E-36	5729729	NT	601285587F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607289 5'
4736	17468	30105	2.15	5.0E-36	5729729	NT	Homo sapiens chromosome 21 segment HS21C009
7698	20350	33484	0.61	5.0E-36	11079227	NT	Homo sapiens API5-like 1 (API5L1), mRNA
11897	12949	25592	3.63	5.0E-36	AJ271735.1	NT	Homo sapiens API5-like 1 (API5L1), mRNA
12168	24650	31103	3.45	5.0E-36	11417882	NT	Homo sapiens N-ethylmaleimide-sensitive factor (NSF), mRNA
1203	13955	26619	1.69	4.0E-36	BE010038.1	EST_HUMAN	Homo sapiens Xq pseudautosomal region; segment 1/2
1423	14170	26850	1.03	4.0E-36	P10289	SWISSPROT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1640	14388	27074	1.61	4.0E-36	BE382874.1	EST_HUMAN	PM3-BN0176-100400-001-p04 BN0176 Homo sapiens cDNA
2218	14947		2.13	4.0E-36	AW247772.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ;
3349	16108	28763	0.82	4.0E-36	BE389289.1	EST_HUMAN	ENDONUCLEASE
3349	16108	28764	0.82	4.0E-36	BE389289.1	EST_HUMAN	601298574F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628386 5'
6828	18425		0.84	4.0E-36	R64023.1	EST_HUMAN	2820020.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820020 5'
5904	18746	31707	2.33	4.0E-36	11497041	NT	601282286F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3004168 5'
7553	20223	33328	1.63	4.0E-36	M33320.1	NT	601282286F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3004168 5'
8453	21145	34285	1.62	4.0E-36	D87675.1	NT	W1805.r1 Soares placenta Nc2HP Homo sapiens cDNA clone IMAGE:139713 5'
8453	21145	34286	1.62	4.0E-36	D87675.1	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), transcript variant 3, mRNA
10909	23589	36835	2.84	4.0E-36	AA400370.1	EST_HUMAN	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
12183	24655		2.09	4.0E-36	11420516	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
12227	25199		7.3	4.0E-36	AV753629.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
							zu69c10.r1 Soares testis NIH Homo sapiens cDNA clone IMAGE:743250 5'
							Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
							AV753629 TP Homo sapiens cDNA clone TPGBH01 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12798	25047		1.44	4.0E-36	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
660	13455	26100	2.58	3.0E-36	AF098810.1	NT	Homo sapiens neurodin III-alpha gene, partial cds
1484	14231	26917	1.32	3.0E-36	AF110238.1	NT	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
1484	14231	26918	1.32	3.0E-36	AF110239.1	NT	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
2297	15022	27757	1.21	3.0E-36	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
4467	17203	29829	5.88	3.0E-36	10181139	NT	Mus musculus junctophilin 1 (Jp1-pending), mRNA
11050	23720	36991	1.59	3.0E-36	BF035327.1	EST_HUMAN	60145883F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
3187	15830	28579	2.38	2.0E-36	BE259287.1	EST_HUMAN	601106343F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3342706 5'
4904	17631	30246	5.45	2.0E-36	AW880378.1	EST_HUMAN	QV0-OT0030-240300-174-H04 OT0030 Homo sapiens cDNA
5398	18198	30892	3.1	2.0E-36	AF287747.1	NT	Mus musculus p47-phox gene, complete cds
5768	18550	31471	3.95	2.0E-36	T08756.1	EST_HUMAN	EST06848 Infant Brain, Berto Soares Homo sapiens cDNA clone HIBB128 5' end
6481	19248	32248	12.22	2.0E-36	T66629.1	EST_HUMAN	yc44a07.r1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:83508 5'
9288	21955	35126	1.07	2.0E-36	BF512794.1	EST_HUMAN	UI-H-BW1-aru-a-11-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071132 3'
9449	21969	35172	0.79	2.0E-36	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
9449	21969	35173	0.79	2.0E-36	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
865	13634	26304	1.81	1.0E-36	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
2141	14871	27603	1	1.0E-36	BE146523.1	EST_HUMAN	RC1-HT0217-131189-021-H07 HT0217 Homo sapiens cDNA
2141	14871	27604	1	1.0E-36	BE146523.1	EST_HUMAN	RC1-HT0217-131189-021-H07 HT0217 Homo sapiens cDNA
2189	14828	27664	1.36	1.0E-36	BF673781.1	EST_HUMAN	602136493F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4272886 5'
3330	16099		1.16	1.0E-36	AF156982.1	NT	Homo sapiens human endogenous retrovirus W provO-19 protease (pro) gene, partial cds
5810	18589	31527	1.29	1.0E-36	4827084	NT	Homo sapiens zinc finger protein 147 (estrogen-responsive finger protein) (ZNF147) mRNA
6090	18868		4.19	1.0E-36	AI867714.1	EST_HUMAN	w637c12.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2307862 3' similar to contains Alu repetitive element
6296	19069	32052	1.21	1.0E-36	R25012.1	EST_HUMAN	yg36g10.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:34528 5' similar to SP:CAHP_HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN ;
6296	19069	32053	1.21	1.0E-36	R25012.1	EST_HUMAN	yg36g10.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:34529 5' similar to SP:CAHP_HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN ;
6582	19345	32359	0.73	1.0E-36	AL120542.1	EST_HUMAN	DKFZp761A229.r1 781 (synonym: hary2) Homo sapiens cDNA clone DKFZp761A229 5'
7326	20009	33087	0.85	1.0E-36	11428108	NT	Homo sapiens a disintegrin and metalloproteinase domain 11 (ADAM11), mRNA
7326	20009	33088	0.85	1.0E-36	11428108	NT	Homo sapiens a disintegrin and metalloproteinase domain 11 (ADAM11), mRNA
7860	20555	33679	5.13	1.0E-36	AA148034.1	EST_HUMAN	zo51a12.r1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'
7860	20555	33680	5.13	1.0E-36	AA148034.1	EST_HUMAN	zo51a12.r1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7952	20647	33770	1.34	1.0E-36	AA420467.1	EST_HUMAN	nc60808.t1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:745670
7952	20647	33771	1.34	1.0E-36	AA420467.1	EST_HUMAN	nc60808.t1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:745670
8079	20773	33902	0.61	1.0E-36	AU141688.1	EST_HUMAN	AU141688 THYROT1 Homo sapiens cDNA clone THYRO1001033 5'
8079	20773	33903	0.61	1.0E-36	AU141688.1	EST_HUMAN	AU141688 THYROT1 Homo sapiens cDNA clone THYRO1001033 5'
8927	21618	34762	2.71	1.0E-36	AW103658.1	EST_HUMAN	xe82b07.x1 NCI_CGAP_Bm35 Homo sapiens cDNA clone IMAGE:2614357 3'
10014	22862	35878	3.88	1.0E-36	BF384169.1	EST_HUMAN	QV3-NN1023-010600-199-b01 NN1023 Homo sapiens cDNA
10226	22874	36086	0.56	1.0E-36	AW855888.1	EST_HUMAN	RC3-CT0279-040500-017-a10 GT0279 Homo sapiens cDNA
10226	22874	36087	0.56	1.0E-36	AW855888.1	EST_HUMAN	RC3-CT0279-040500-017-a10 CT0279 Homo sapiens cDNA
10687	23547	36795	3.3	1.0E-36	AW897636.1	EST_HUMAN	CM3-NN0061-140400-147-h12 NN0061 Homo sapiens cDNA
11354	24044	37347	4.17	1.0E-36	AW504143.1	EST_HUMAN	U1HF-BN0-ale-c-03-03-U11 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079277 5'
11393	23999	37302	1.45	1.0E-36	AB056396.1	EST_HUMAN	RC-BT091-210199-110 BT091 Homo sapiens cDNA
11393	23999	37303	1.45	1.0E-36	AB056396.1	EST_HUMAN	RC-BT091-210199-110 BT091 Homo sapiens cDNA
12060	24575		3.81	1.0E-36	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12501	24855		3.03	1.0E-36	AL163213.2	NT	Homo sapiens chromosome 21 segment HS21C013
12747	25011		3.23	1.0E-36	AF202723.1	NT	Homo sapiens Sad1 uno-84 domain protein 2 (SUN2) mRNA, partial cds
7281	19885	33042	2.12	9.0E-37	AW009277.1	EST_HUMAN	ws80b07.x1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:2504245 3'
7281	19885	33043	2.12	9.0E-37	AW009277.1	EST_HUMAN	ws80b07.x1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:2504245 3'
12309	24733		1.35	9.0E-37	W22618.1	EST_HUMAN	73D4 Human retina cDNA Tsp501-cleaved sublibrary Homo sapiens cDNA not directional
3350	16109	28765	0.99	8.0E-37	4757979	NT	Homo sapiens chimerin (chimerin) 2 (CHIN2) mRNA
5168	17977		1.58	8.0E-37	BE989077.1	EST_HUMAN	CM0-UT0003-050800-503-d09 UT0003 Homo sapiens cDNA
5738	18530	31451	3.75	8.0E-37	BE350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
5738	18530	31452	3.75	8.0E-37	BE350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
5787	18578	31507	8.24	8.0E-37	AW840840.1	EST_HUMAN	MER29 repetitive element;
7784	20479	33604	6.22	8.0E-37	X87344.1	NT	RC1-CN0008-210100-012-a09_1 CN0008 Homo sapiens cDNA
1262	14011		3.03	7.0E-37	AL042800.1	EST_HUMAN	H. sapiens DNA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14 genes
1738	14480	27179	0.97	7.0E-37	AF111167.2	NT	DKFZp434E0422_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434E0422 5'
1738	14480	27180	0.97	7.0E-37	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
10657	23348	36585	8.69	7.0E-37	AB17700.1	EST_HUMAN	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10811	23494	36729	2.25	7.0E-37	AF536702.1	EST_HUMAN	tm87g03.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165140 3' similar to contains L1.b3 L1 repetitive element;
8338	21031	34168	1.34	6.0E-37	AF169689.1	NT	Homo sapiens protodactherin alpha 10 alternate isoform (PCDH-alpha10) mRNA, complete cds
12624	24929		2.94	6.0E-37	AF202723.1	NT	Homo sapiens Sad1 uno-84 domain protein 2 (SUN2) mRNA, partial cds
6002	18783	31744	3.9	5.0E-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
6002	18783	31746	3.9	5.0E-37	AA307123.1	EST_HUMAN	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
8654	21346	34490	0.9	5.0E-37	AV750211.1	EST_HUMAN	AV750211 NPC Homo sapiens cDNA clone NPCBGH09 5'
10837	23519		4	5.0E-37	7657117	NT	Homo sapiens glycine C-acetyltransferase (2-amino-3-ketobutyrate-CoA ligase) (GCAT), mRNA
12056	24572		6.86	5.0E-37	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
2423	15144	27877	2.12	4.0E-37	AA702794.1	EST_HUMAN	z60004.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
6194	18970	31945	0.61	4.0E-37	AW784502.1	EST_HUMAN	RO8-UM0014-210200-021-P05 UM0014 Homo sapiens cDNA
9256	21835	35109	0.74	4.0E-37	AA843806.1	EST_HUMAN	ak09c02.s1 Soares_parrathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1405442 3'
2010	14745	27472	3.2	3.0E-37	AL048956.1	EST_HUMAN	DKFZp434L2418_r1 434 (synonym: hba3) Homo sapiens cDNA clone DKFZp434L2418
2010	14745	27473	3.2	3.0E-37	AL048956.1	EST_HUMAN	DKFZp434L2418_r1 434 (synonym: hba3) Homo sapiens cDNA clone DKFZp434L2418
2665	15731		3.15	3.0E-37	AW961150.1	EST_HUMAN	EST373222 MAGIE resequences, MAGF Homo sapiens cDNA
5774	18565	31494	0.92	3.0E-37	AL138274.1	EST_HUMAN	DKFZp547G067_r1 547 (synonym: hbar1) Homo sapiens cDNA clone DKFZp547G067 5'
7455	20129	33221	0.71	3.0E-37	AI746952.1	EST_HUMAN	at34c05.x1 Barslead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2373896 3' similar to TR:Q13537
372	13197	25842	0.68	2.0E-37	D89780.1	NT	Q13537 SIMILAR TO POGO ELEMENT.;
372	13197	25843	0.68	2.0E-37	D89780.1	NT	Homo sapiens mRNA for AML1, complete cds
1058	13816	26477	2.64	2.0E-37	AU131202.1	EST_HUMAN	Homo sapiens mRNA for AML1, complete cds
1058	13816	26478	2.64	2.0E-37	AU131202.1	EST_HUMAN	AU131202 NT2RP3 Homo sapiens cDNA clone NT2RP3002166 5'
1956	14682	27405	1.67	2.0E-37	AL163247.2	NT	AU131202 NT2RP3 Homo sapiens cDNA clone NT2RP3002166 5'
3873	16623	29261	4.78	2.0E-37		NT	Homo sapiens chromosome 21 segment HS21C047
4968	17663		0.93	2.0E-37	AL163284.2	NT	Homo sapiens cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1 (CYP27A1b) mRNA
5304	18109		0.66	2.0E-37	BF035327.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
6561	19328	32333	3.48	2.0E-37	AA346720.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
7856	20590	33720	0.46	2.0E-37	BE637764.1	EST_HUMAN	EST32631 Fetal heart II Homo sapiens cDNA 5' end
7856	20590	33721	0.46	2.0E-37	BE637764.1	EST_HUMAN	601067534F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453657 5'
7937	20632	33769	2.88	2.0E-37	BF204032.1	EST_HUMAN	601067534F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453657 5'
11549	24148	37459	11.22	2.0E-37	AF176013.1	NT	601869157F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111406 5'
12784	25037		3.54	2.0E-37	11417972	NT	Homo sapiens J domain containing protein 1 isoform b (JDP1) mRNA, complete cds
2081	14813	27546	4.93	1.0E-37	AL163281.2	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
						NT	Homo sapiens chromosome 21 segment HS21C081

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3192	15955		1.08	1.0E-37	AW862082.1	EST_HUMAN	RC3-CT0347-210400-018-03 CT0347 Homo sapiens cDNA
3943	16693	29332	0.72	1.0E-37	AF180011.1	NT	Homo sapiens ribonuclease III (RN3) mRNA, complete cds
4888	17615	30234	2.35	1.0E-37	BF371719.1	EST_HUMAN	QV0-FN0180-280700-318-c10 FN0180 Homo sapiens cDNA
5914	18699		0.94	1.0E-37	7305360	NT	Mus musculus otogelin (Otog), mRNA
8113	20807	33940	1.25	1.0E-37	BE546032.1	EST_HUMAN	601072419F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458308 5'
8634	21326	34468	2.57	1.0E-37	AA171406.1	EST_HUMAN	zp21b02.r1 Stratiene neuroepithelium (#637231) Homo sapiens cDNA clone IMAGE:610059 5' similar to contains L1.12 L1 repetitive element:
10597	23291	36529	2.98	1.0E-37	M22878.1	NT	Human somatic cytochrome c (HC1) processed pseudogene, complete cds
12363	24768		2.81	1.0E-37	BE771814.1	EST_HUMAN	CM3-FT0096-140700-243-d07 FT0096 Homo sapiens cDNA
5690	18483	31402	2	9.0E-38	10048482	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo (LOC56768), mRNA
1200	13952	26816	2.02	8.0E-38	11436955	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
2502	15219	27962	1.8	8.0E-38	BF346221.1	EST_HUMAN	602018401F1 NCL_OGAP_Bm67 Homo sapiens cDNA clone IMAGE:4153992 5'
12420	13952	26616	1.6	8.0E-38	11436955	NT	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA
4197	16938	29563	0.73	7.0E-38	H19092.1	EST_HUMAN	yr51f07.r1 Soares adult brain N2b9-1B55Y Homo sapiens cDNA clone IMAGE:171973 5'
5039	17758		1.31	7.0E-38	AF287263.1	NT	Mus musculus ATP-binding cassette 1, sub-family A, member 1 (Abca1) gene, complete cds
3037	15803	28450	1.2	6.0E-38	BF033033.1	EST_HUMAN	601455722F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856948 5'
5502	18300	31199	1.6	6.0E-38	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5302	18300	31200	1.6	6.0E-38	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
7228	19913	32986	0.57	6.0E-38	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
11918	24480		2.57	6.0E-38	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
12395	24783	31038	12.79	6.0E-38	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12767	25181	30900	1.7	6.0E-38	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
710	13484	28133	1.38	5.0E-38	AW971819.1	EST_HUMAN	EST383908 IMAGE resequences, MAGL Homo sapiens cDNA
2455	15173	27912	0.99	5.0E-38	AJ237740.1	NT	Homo sapiens RIBLIR gene (partial), exon 8
3849	16446	29086	0.85	5.0E-38	7549804	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
3917	16687	29307	0.92	5.0E-38	T83107.1	EST_HUMAN	yd40h07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:110749 5' similar to SP:OLF3_MOUSE P23275 OLFACTORY RECEPTOR:
3917	16687	29308	0.92	5.0E-38	T83107.1	EST_HUMAN	yd40h07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:110749 5' similar to SP:OLF3_MOUSE P23275 OLFACTORY RECEPTOR:
6930	19686	32712	1.48	5.0E-38	BE871610.1	EST_HUMAN	601450148F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3854074 5'
116	12936	25575	4.59	4.0E-38	Z25496.1	NT	B.taurus mitochondrial aspartate aminotransferase mRNA, complete CDS
116	12936	25576	4.59	4.0E-38	Z25496.1	NT	B.taurus mitochondrial aspartate aminotransferase mRNA, complete CDS
2093	14824		5.25	3.0E-38	AF003630.1	NT	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
3684	16437		2.19	3.0E-38	7549807	NT	Homo sapiens HIRA interacting protein 4 (dnaj-like) (HIRIP4), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3836	16587	29224	1.76	3.0E-38	P63538	SWISSPROT	SSU72 PROTEIN
3836	16587	29225	1.76	3.0E-38	P63538	SWISSPROT	SSU72 PROTEIN
4574	17309		1.47	3.0E-38	BE279301.1	EST_HUMAN	601157633F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3504272 5'
6655	25097	32430	8.11	3.0E-38	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
7144	19831	32900	0.68	3.0E-38	AW302491.1	EST_HUMAN	xw04d01.x1 NCI_CGAP_Brn53 Homo sapiens cDNA clone IMAGE:2827009 3'
7488	20160	33252	8.26	3.0E-38	BF379884.1	EST_HUMAN	CM3-FT0181-140700-241-07 FT0181 Homo sapiens cDNA
8548	21240	34383	2.1	3.0E-38	H85494.1	EST_HUMAN	ye88b04.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:249775 5'
8548	21240	34384	2.1	3.0E-38	H85494.1	EST_HUMAN	ye88b04.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:249775 5'
9872	22522		2.24	3.0E-38	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
12630	17896	30488	1.65	3.0E-38	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
49	12878	25504	1.4	2.0E-38	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
1358	14106	26781	2.89	2.0E-38	5902087	NT	Homo sapiens SMT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA
1641	14387	27076	2.21	2.0E-38	AA43753.1	EST_HUMAN	zw30d01.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:770785 5' similar to SW:MA12_RABIT_P45701 MANNOSYL-OLIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE ;
1641	14387	27076	2.21	2.0E-38	AA43753.1	EST_HUMAN	zw30d01.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:770785 5' similar to
2408	15129	27865	1.45	2.0E-38	W78571.1	EST_HUMAN	SW:MA12_RABIT_P45701 MANNOSYL-OLIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE ;
5632	18427	31339	0.69	2.0E-38	Z26634.2	NT	zdb6g09.r1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:345664 5'
5632	18427	31340	0.69	2.0E-38	Z26634.2	NT	Homo sapiens mRNA for anklyrin B (440 kDa)
7619	20285	33395	1.46	2.0E-38	AV721103.1	EST_HUMAN	AV721103 HTB Homo sapiens cDNA clone HTBARH11 5'
8382	21075		4.38	2.0E-38	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
8783	21485	34631	0.56	2.0E-38	F06450.1	EST_HUMAN	HSC18F031 normalized infant brain cDNA Homo sapiens cDNA clone c-18f03
8864	21555	34700	2.04	2.0E-38	AF069755.1	NT	Homo sapiens orphan G protein-coupled receptor HG20 (HG20) mRNA, complete cds
9121	21809		1.06	2.0E-38	BE222256.1	EST_HUMAN	hu06g02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166130 3' similar to TR:O02710 O02710
10346	22993	36212	1.71	2.0E-38	D63479.2	NT	GAG POLYPROTEIN ;
						NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
11200	23865	37151	1.37	2.0E-38	AA595480.1	EST_HUMAN	nc34g03.s1 NCI_CGAP_P123 Homo sapiens cDNA clone IMAGE:1102812 3' similar to TR:E212316
						EST_HUMAN	E212316 NADP DEPENDENT LEUKOTREINE B4 12-HYDROXYDEHYDROGENASE ;
11200	23865	37152	1.37	2.0E-38	AA595480.1	EST_HUMAN	nc34g03.s1 NCI_CGAP_P123 Homo sapiens cDNA clone IMAGE:1102812 3' similar to TR:E212316
11472	24073	37382	5.79	2.0E-38	BE712790.1	EST_HUMAN	E212316 NADP DEPENDENT LEUKOTREINE B4 12-HYDROXYDEHYDROGENASE ;
						EST_HUMAN	QV2-HT0698-080800-293-405 HT0698 Homo sapiens cDNA
11638	24235	37557	3.52	2.0E-38	AF190501.1	NT	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR6) mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11638	24236	37558	3.52	2.0E-38	AF190501.1	NT	Homo sapiens (ucine-rich repeat-containing G protein-coupled receptor 6 (LGR6) mRNA, partial cds
11971	24517		3.05	2.0E-38	AV726988.1	EST_HUMAN	AV726988 HTC Homo sapiens cDNA clone HTCAXH07 5'
11973	24518		2.06	2.0E-38	AB012723.1	NT	Homo sapiens gene for kinesin-like protein, complete cds
12280	24705	31081	6.45	2.0E-38	H55641.1	EST_HUMAN	CHR220580 Chromosome 22 exon Homo sapiens cDNA clone C22_788 5'
12323	24742		1.43	2.0E-38	S74906.1	NT	E1 beta=pyruvate dehydrogenase beta [promoter] [human, placenta, Genomic, 1280 nt]
12777	25031		3.76	2.0E-38	11418248	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
1071	13829		2.55	1.0E-38	AA401570.1	EST_HUMAN	zu62b02.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:742539 5' similar to contains element
1092	14728	27450	2.83	1.0E-38	4885288	NT	MER19 repetitive element;
2012	14747	27475	1.11	1.0E-38	7661969	NT	Homo sapiens guanine nucleotide binding protein-like 1 (GNL1), mRNA
2489	15216	27960	2.34	1.0E-38	AF270831.1	NT	Homo sapiens cyclin K (CCNK) gene, exon 7
4290	17029	29655	1.23	1.0E-38	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4290	17029	29656	1.23	1.0E-38	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4558	17283	29921	1	1.0E-38	8922543	NT	Homo sapiens hypothetical protein FLJ10800 (FLJ10800), mRNA
5937	18719	31677	4.71	1.0E-38	7303360	NT	Mus musculus otogelin (Otog), mRNA
5937	18719	31678	4.71	1.0E-38	7303360	NT	Mus musculus otogelin (Otog), mRNA
7304	19987	33063	3.16	1.0E-38	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
9051	21740	34898	0.71	1.0E-38	11422250	NT	Homo sapiens hypothetical protein FLJ10800 (FLJ10800), mRNA
9310	21977	35150	5.13	1.0E-38	BE350127.1	EST_HUMAN	h09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
10301	22949	36163	0.58	1.0E-38	R18512.1	EST_HUMAN	MER29 repetitive element;
11588	24187	37503	1.28	1.0E-38	7662109	NT	yf8b08.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:30488 5'
12118	25140		2.2	1.0E-38	AL163284.2	NT	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
53	12882	25510	15.3	8.0E-39	4502312	NT	Homo sapiens chromosome 21 segment HS21C084
1373	14121	26796	1.45	8.0E-39	4758229	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 16kD (ATP6C) mRNA
1821	14560		1.27	8.0E-39	AI823404.1	EST_HUMAN	Homo sapiens estrogen receptor-binding fragment-associated gene 9 (EBAG9) mRNA
2087	14819	27550	5.78	7.0E-39	AL163227.2	NT	wh53f10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384491 3' similar to TR:P87890 P87890
10711	23400	36639	2.24	6.0E-39	BF331829.1	EST_HUMAN	POL PROTEIN;
12696	24979		1.96	6.0E-39	BE670394.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
987	13750	26412	1.57	5.0E-39	AF003528.1	NT	QV1-BT0631-040800-357-02 BT0631 Homo sapiens cDNA
							7e34c03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284356 3' similar to WP:R151.6
							CE00828;
							Homo sapiens X-linked arylidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2984	15780	28397	8.62	5.0E-39	AI750154.1	EST_HUMAN	at3b04.x1 Barslead codon HPLRB7 Homo sapiens cDNA clone IMAGE:2374063 3' similar to TR:Q15408
12410	24793		2.04	5.0E-39	11420289	NT	Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ; contains LTR7.1 LTR7 repetitive element ;
537	13320	25954	6.78	4.0E-39	AB016610.1	NT	Homo sapiens hypothetical protein FLJ10803 (FLJ10803), mRNA
3559	16314	28961	0.97	4.0E-39	AL163210.2	NT	Chlorococcus aethiops mRNA for ribosomal protein S4X, complete cds
7974	20669	33791	1.27	4.0E-39	AA682049.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
9228	21907	35079	0.58	4.0E-39	D84116.1	NT	es92g04.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1020438 3' similar to contains
9228	21907	35079	0.58	4.0E-39	D84116.1	NT	OFR.b1 OFR repetitive element ;
12427	24802		4.47	4.0E-39	11418177	NT	Homo sapiens DNA for prostacyclin synthase, exon 2
12534	24878		2.71	4.0E-39	BE838452.1	EST_HUMAN	Homo sapiens DNA for prostacyclin synthase, exon 2
48	12875	25498	14.86	3.0E-39	AA631949.1	EST_HUMAN	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
46	12875	25499	14.86	3.0E-39	AA631949.1	EST_HUMAN	QV0-FN0063-260600-278-c08 FN0063 Homo sapiens cDNA
46	12875	25500	14.86	3.0E-39	AA631949.1	EST_HUMAN	frnc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
							frnc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
							frnc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
11963	24511	37257	4.35	3.0E-39	AI084557.1	EST_HUMAN	frnc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1
							alpha3a10.s1 Soares NIH-MPUs S1 Homo sapiens cDNA clone IMAGE:1660986 3' similar to SW:GTR5_RAT
11963	24511	37258	4.35	3.0E-39	AI084557.1	EST_HUMAN	P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE ;
12008	24541		5.82	3.0E-39	H37903.1	EST_HUMAN	alpha3a10.s1 Soares NIH-MPUs S1 Homo sapiens cDNA clone IMAGE:1660986 3' similar to SW:GTR5_RAT
877	13646		5.8	2.0E-39	BE409203.1	EST_HUMAN	P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE ;
882	13661		14.08	2.0E-39	AI525119.1	EST_HUMAN	yp51c08.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:160954 3'
1009	13769		4.2	2.0E-39	AF000573.1	NT	601301607F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636289 5'
1520	14267		11.91	2.0E-39	AW372318.1	EST_HUMAN	promme-7 D01.1 bvtumor Homo sapiens cDNA 5'
							Homo sapiens homogenized 1,2-dioxygenase gene, complete cds
1968	14702	27419	3.28	2.0E-39	AA720574.1	EST_HUMAN	PMO-BT0340-211299-003-402 BT0340 Homo sapiens cDNA
2634	15346	28089	1.84	2.0E-39	AL163248.2	NT	rw21g02.s1 NCJ_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.t3
4370	17108	29743	1.48	2.0E-39	BF370207.1	EST_HUMAN	THR repetitive element ;
5403	18203	30907	4.21	2.0E-39	AA508880.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C048
7289	19963	33029	2.98	2.0E-39	AA080867.1	EST_HUMAN	RC4-FN0037-290700-011-410 FN0037 Homo sapiens cDNA
7431	20108	33195	0.72	2.0E-39	AL163202.2	NT	ng956103.s1 NCJ_CGAP_P66 Homo sapiens cDNA clone IMAGE:941693
7431	20108	33196	0.72	2.0E-39	AL163202.2	NT	zn0602.r1 Stratagene hNT neuron (4937233) Homo sapiens cDNA clone IMAGE:546651 5'
8209	20903	34038	0.67	2.0E-39	AF078779.1	NT	Homo sapiens chromosome 21 segment HS21C002
8394	22066		0.55	2.0E-39	AA984531.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C002
							Homo sapiens chromosome 21 segment HS21C002
							Rattus norvegicus putative four repeat ion channel mRNA, complete cds
							am88c11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1630196 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9526	22179		0.73	2.0E-39	AI089550.1	EST_HUMAN	tu35603.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2253052.3'
11409	24058	37365	2.97	2.0E-39	D86984.1	NT	Human mRNA for KIAA0209 gene, partial cds
1503	14249	26936	3.71	1.0E-39	AJ006345.1	NT	Homo sapiens KVLQ11 gene
1503	14249	26937	3.71	1.0E-39	AJ006345.1	NT	Homo sapiens KVLQ11 gene
1521	14268	26952	4.24	1.0E-39	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZp434P211), mRNA
4098	16841	29467	0.7	1.0E-39	11430303	NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
4098	16841	29468	0.7	1.0E-39	11430303	NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
4612	17347	29980	2.5	1.0E-39	AW951995.1	EST_HUMAN	EST364065 MAGE resequences, MAGB Homo sapiens cDNA
4612	17347	29981	2.5	1.0E-39	AW951995.1	EST_HUMAN	EST364065 MAGE resequences, MAGB Homo sapiens cDNA
4654	17388	30021	8.86	1.0E-39	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZp434P211), mRNA
5274	18079	30736	1.02	1.0E-39	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
5274	18079	30736	1.02	1.0E-39	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
5542	18339	31246	1.97	1.0E-39	T80876.1	EST_HUMAN	y428g08.r1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:106402.5' similar to contains
5578	18375	31287	4.84	1.0E-39	AJ278170.1	NT	Alu repetitive element; contains LTR1 repetitive element;
5578	18375	31288	4.84	1.0E-39	AJ278170.1	NT	Mus musculus mRNA for neuronal interacting factor X 1 (NIX1) (Nix1 gene)
6727	19561		1.57	1.0E-39	11436736	NT	Mus musculus mRNA for neuronal interacting factor X 1 (NIX1) (Nix1 gene)
7264	19948	33025	1.8	1.0E-39	D78132.1	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
8462	21154	34297	1.03	1.0E-39	O46530	SWISSPROT	Homo sapiens mRNA for ras-related GTP-binding protein, complete cds
12357	24761		1.34	1.0E-39	U07000.1	NT	RIBONUCLEASE K6 PRECURSOR (RNASE K6)
542	13325	25957	1.88	9.0E-40	5803210	NT	Human breakpoint cluster region (BCR) gene, complete cds
1213	13963	26829	15.14	9.0E-40	4755145	NT	Homo sapiens UDP-glucose pyrophosphorylase 2 (UGP2), mRNA
1213	13963	26630	15.14	9.0E-40	4755145	NT	Homo sapiens AE-binding protein 1 (AEBP1) mRNA
1432	14179	26865	6.54	9.0E-40	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA
3765	16617	29155	0.97	9.0E-40	4503764	NT	Homo sapiens fragile X mental retardation 1 (FMR1) mRNA
3958	17878	28343	3.99	9.0E-40	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
3036	15802	28449	0.84	8.0E-40	AA078165.1	EST_HUMAN	7H15A04 Chromosome 7 HaLa cDNA Library Homo sapiens cDNA clone 7H15A04
3903	16653		3.35	8.0E-40	BE396541.1	EST_HUMAN	601288958F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619168.5'
7616	20282	33390	2.03	7.0E-40	U80325.1	NT	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7616	20282	33391	2.03	7.0E-40	U60325.1	NT	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds
10813	23498	36732	2.27	7.0E-40	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2730	15437	28174	8.41	6.0E-40	AA361275.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to similar to zinc finger protein family
2730	15437	28175	8.41	6.0E-40	AA361275.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to similar to zinc finger protein family
5849	18636		2.24	6.0E-40	BE504766.1	EST_HUMAN	h240g01.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3210480 3'
6055	18835		1.11	6.0E-40	7661999	NT	Homo sapiens KIAA0211 gene product (KIAA0211), mRNA
6836	19498	32522	3.56	6.0E-40	11439783	NT	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
6836	19498	32523	3.56	6.0E-40	11439783	NT	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
9877	22527	35722	10.25	6.0E-40	AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLCDGF04 3'
9877	22527	35723	10.25	6.0E-40	AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLCDGF04 3'
1869	14607	27318	1.78	4.0E-40	AI688005.1	EST_HUMAN	h91b01.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2248873 3' similar to TR:O73505 O73505 POL PROTEIN. ;
2101	14832		2.27	4.0E-40	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
4356	17084	29729	9.08	4.0E-40	7682117	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
7786	20481	33606	0.5	4.0E-40	AU127831.1	EST_HUMAN	AU127831 NT2RP2 Homo sapiens cDNA clone NT2RP2002172 5'
7890	20585	33714	6.22	4.0E-40	AA742809.1	EST_HUMAN	nv34e10.r1 NCI_CGAP_Br4 Homo sapiens cDNA clone IMAGE:1222122
8953	21844	34793	6.17	4.0E-40	BE009416.1	EST_HUMAN	PMO-BN0167-070500-002-h12 BN0167 Homo sapiens cDNA
8953	21844	34794	5.17	4.0E-40	BE009416.1	EST_HUMAN	PMO-BN0167-070500-002-h12 BN0167 Homo sapiens cDNA
10616	23309	36548	3.03	4.0E-40	AW841585.1	EST_HUMAN	RC1-CN0017-120200-012-e04 CN0017 Homo sapiens cDNA
4111	18654	29481	1.02	3.0E-40	AI925949.1	EST_HUMAN	wh12r07.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2380549 3'
6543	19308	32313	7.02	3.0E-40	11417342	NT	Homo sapiens serpin domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (serpin) 5A (SEMASA), mRNA
8280	20974	34115	3.62	3.0E-40	5454167	NT	Homo sapiens HBV associated factor (XAP4) mRNA
8868	21559	34704	1.25	3.0E-40	AF078778.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9111	21799	34963	1.42	3.0E-40	AF078778.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
11232	23895	37182	8.36	3.0E-40	6005813	NT	Homo sapiens serine threonine protein kinase (NDR), mRNA
11583	24162	37473	2.23	3.0E-40	AW118799.1	EST_HUMAN	xd9d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2605491 3' similar to TR:Q15804 Q15804 SIMILAR TO ENV OF TYPE A AND TYPE B RETROVIRUSES AND TO CLASS II HERVS ;
317	13120		8.53	2.0E-40	AI223036.1	EST_HUMAN	qg52h08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838847 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
777	13549		1.61	2.0E-40	AW303868.1	EST_HUMAN	xr24e10.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2761098 3' similar to SW:RS5_MOUSE
1818	14557		0.92	2.0E-40	AV731601.1	EST_HUMAN	P97461 40S RIBOSOMAL PROTEIN S5. ; AV731601 HTF Homo sapiens cDNA clone HTFAZE05 5'
1927	14663	27375	1.58	2.0E-40	4506188	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products
1927	14663	27376	1.58	2.0E-40	4506188	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products
2064	14796	27522	1.21	2.0E-40	AI068562.1	EST_HUMAN	w80a11.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2514716 3' similar to TR:Q91929 Q91929
2166	14895	27630	2.48	2.0E-40	6453592	NT	ZINC FINGER PROTEIN. ; Homo sapiens adenyl cyclase-associated protein 2 (CAP2) mRNA
2695	15404		1.44	2.0E-40	BE275932.1	EST_HUMAN	601121597F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345784 5'
3123	15898	28529	4.28	2.0E-40	6453592	NT	Homo sapiens adenyl cyclase-associated protein 2 (CAP2) mRNA
4843	17573	30197	1.68	2.0E-40	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4843	17573	30198	1.68	2.0E-40	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
863	13632		1.78	1.0E-40	AA225989.1	EST_HUMAN	nc09a09.s1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:1007608
2627	15339	28083	0.93	1.0E-40	BF039881.1	EST_HUMAN	601460375F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863803 5'
2692	15401		1.34	1.0E-40	BE018348.1	EST_HUMAN	bb70a10.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048570 5' similar to TR:Q9Z158 Q9Z158
2741	15447	28185	1.18	1.0E-40	BF541030.1	EST_HUMAN	SYNTAXIN 17. ;
2741	15447	28186	1.18	1.0E-40	BF541030.1	EST_HUMAN	602068604F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067736 5'
3292	16053		1.27	1.0E-40	4507142	NT	602068604F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067736 5'
4571	17306	29834	4.52	1.0E-40	4508012	NT	Homo sapiens sorting nexin 3 (SNX3) mRNA
6161	18938	31907	0.75	1.0E-40	W92708.1	EST_HUMAN	Homo sapiens zinc finger protein 200 (ZNF200) mRNA, and translated products
6161	18938	31908	0.75	1.0E-40	W92708.1	EST_HUMAN	zh79f11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418317 3'
6987	19680	32727	1.77	1.0E-40	AA573201.1	EST_HUMAN	zh79f11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418317 3'
6987	19680	32728	1.77	1.0E-40	AA573201.1	EST_HUMAN	h42f04.s1 NCL_CGAP_AA1 Homo sapiens cDNA clone IMAGE:995167 3'
7133	19820	32886	0.69	1.0E-40	P26808	SWISSPROT	h42f04.s1 NCL_CGAP_AA1 Homo sapiens cDNA clone IMAGE:995167 3'
10834	23516	36758	8.34	1.0E-40	AU146345.1	EST_HUMAN	POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; RIBONUCLEASE H]
11694	24289	37612	1.89	1.0E-40	AA614253.1	EST_HUMAN	AU146345 NT2RM4 Homo sapiens cDNA clone NT2RM4002122 3'
11694	24289	37613	1.89	1.0E-40	AA614255.1	EST_HUMAN	np08f03.s1 NCL_CGAP_P3 Homo sapiens cDNA clone IMAGE:1115861 similar to TR:G1136406
12376	25274		10.09	1.0E-40	BF334112.1	EST_HUMAN	G1136406 KIAA0173 PROTEIN. ; np08f03.s1 NCL_CGAP_P3 Homo sapiens cDNA clone IMAGE:1115861 similar to TR:G1136406
7822	20517	33843	1.62	8.0E-41	AL163203.2	NT	MR2-CT0222-21099-002-e10 CT0222 Homo sapiens cDNA
							Homo sapiens chromosome 21 segment HS21C003

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
806	15553	26246	1.24	7.0E-41	A1834384.1	EST_HUMAN	wp04h04.x1 NCL CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2463895 3'
809	15553	26247	1.24	7.0E-41	A1834384.1	EST_HUMAN	wp04h04.x1 NCL CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2463895 3'
4609	17344	29976	0.92	7.0E-41	BE389592.1	EST_HUMAN	601282077F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603955 5'
4609	17344	29977	0.92	7.0E-41	BE389592.1	EST_HUMAN	601282077F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603955 5'
5183	17891	30507	1.2	7.0E-41	11545770	NT	Homo sapiens hypothetical protein FLJ13188 (FLJ13188), mRNA
5918	18703	31650	3.49	7.0E-41	11418208	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
6260	19034	32009	0.61	7.0E-41	11433010	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA
6895	17974	30528	0.68	7.0E-41	U72335.1	NT	Human platelet activating factor acetylhydrolase, brain isoform, 45 kDa subunit (LIS1) gene, exons 3 and 4
11411	24060	37366	2.23	7.0E-41	4758445	NT	Homo sapiens guanine nucleotide binding protein 10 (GNG10) mRNA
11631	24228	37552	1.73	7.0E-41	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
12782	25271	25724	4.35	7.0E-41	11417972	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
274	13081	25724	1.19	6.0E-41	AB037163.1	NT	Homo sapiens DSCR5b mRNA, complete cds
2104	14835	27569	2.04	6.0E-41	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
4433	17169	29797	0.91	6.0E-41	BE567816.1	EST_HUMAN	601340485F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682877 5'
7871	20566	33692	1.44	6.0E-41	BF513783.1	EST_HUMAN	UIH-BW1-amp-b-03-0-UI.s1 NCL CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070421 3'
1785	14535	27244	1.11	5.0E-41	T82828.1	EST_HUMAN	yc03e10.s1 Stralagene lung (#537210) Homo sapiens cDNA clone IMAGE:79626 3'
4087	19830		1.07	5.0E-41	4985636	NT	Homo sapiens target of myb1 (chicken) homolog (TOM1), mRNA
6452	19220		2.29	5.0E-41	BE067042.1	EST_HUMAN	PM4-BT0341-251199-002-F11 BT0341 Homo sapiens cDNA
382	13169		2.42	4.0E-41	BE156318.1	EST_HUMAN	QV0-HT0367-150200-114-g09 HT0367 Homo sapiens cDNA
1076	13834	26492	1.26	4.0E-41	AU118344.1	EST_HUMAN	AU118344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
1388	14135	26810	15.51	4.0E-41	AI027117.1	EST_HUMAN	ow45e06.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1849794 3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE.; contains LTR5.b1 LTR5 repetitive element;
1388	14135	26811	15.51	4.0E-41	AI027117.1	EST_HUMAN	ow45e06.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1849794 3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE.; contains LTR5.b1 LTR5 repetitive element;
1403	14150	26830	1.88	4.0E-41	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
1632	14378	27065	6.08	4.0E-41	AI500408.1	EST_HUMAN	trn6c04.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165958 3' similar to contains OFR.b1 OFR repetitive element;
2891	15658	28302	3.55	4.0E-41	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
2891	15658	28303	3.55	4.0E-41	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4124	16866	29493	2.24	4.0E-41	X92885.1	NT	H.sapiens DNase I hypersensitive site (HSS-3) enhancer element

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6416	19184		1.41	4.0E-41	AV758295.1	EST_HUMAN	AV758295 BM Homo sapiens cDNA clone BMF6HC08 5'
9593	22246	35430	7.24	4.0E-41	BF304683.1	EST_HUMAN	601888096F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
11671	24286		11.07	4.0E-41	AV710480.1	EST_HUMAN	AV710480 Cu Homo sapiens cDNA clone CUAACC07 5'
12546	25184		1.63	4.0E-41	AV708431.1	EST_HUMAN	AV708431 ADC Homo sapiens cDNA clone ADCARE02 5'
12727	24998	30971	1.69	4.0E-41	BE887118.1	EST_HUMAN	601508315F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910059 5'
927	13694	26358	2.68	3.0E-41	AB030178.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
4301	17040		2.46	3.0E-41	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
5404	18204	30908	7.78	3.0E-41	X87689.1	NT	H. sapiens mRNA for putative p84 GLOP protein
6288	18081	32043	1.59	3.0E-41	AB037808.1	NT	Homo sapiens mRNA for KIAA1387 protein, partial cds
7159	19646	32918	0.71	3.0E-41	AA356168.1	EST_HUMAN	EST84683 Jurkat T-cells VI Homo sapiens cDNA 5' end
11730	24323	37647	1.26	3.0E-41	AJ229041.1	NT	Homo sapiens 959 kb config between AML1 and CBR1 on chromosome 21q22; segment 1/3
11924	24485		1.52	3.0E-41	AA609708.1	EST_HUMAN	af1710.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1031947 3'
12456	24825		1.48	3.0E-41	BF125922.1	EST_HUMAN	601762840F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026081 5'
1817	14299	26967	5.17	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
1951	14686	27399	1.84	2.0E-41	AA331940.1	EST_HUMAN	EST35818 Embryo, 8 week I Homo sapiens cDNA 5' end
2216	14944	27684	1.54	2.0E-41	D86962.1	NT	Human mRNA for KIAA0207 gene, complete cds
2284	14990	27730	3.34	2.0E-41	X89631.1	NT	G.gorilla DNA for ZNF80 gene homolog
2831	14299	26987	4.65	2.0E-41	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
3321	16081	28731	1.41	2.0E-41	AA449549.1	EST_HUMAN	zx08b04.r1 Soares total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:785839 5'
4579	17314	28942	1.17	2.0E-41	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
4579	17314	28943	1.17	2.0E-41	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
5141	17858	30475	0.9	2.0E-41	AW236547.1	EST_HUMAN	xm4706.x1 NCL_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2887363 3' similar to TR:070843 O70343
6530	19296	32300	0.76	2.0E-41	4504778	NT	PPAR GAMMA COACTIVATOR 1.;
7572	20241	33346	8.08	2.0E-41	AF038404.1	NT	Homo sapiens integrin, beta 8 (ITGB8) mRNA
7967	20682	33786	1.45	2.0E-41	M98944.1	NT	Homo sapiens homolog of Nedd5 (hNedd5) mRNA, complete cds
7967	20682	33787	1.45	2.0E-41	M98944.1	NT	Human B-cell specific transcription factor (BSAP) mRNA, complete cds
7966	20690	33818	1.12	2.0E-41	AA328265.1	EST_HUMAN	Human B-cell specific transcription factor (BSAP) mRNA, complete cds
8874	21585	34710	1.61	2.0E-41	P52742	SWISSPROT	EST31723 Embryo, 12 week I Homo sapiens cDNA 5' end
9317	21984	35155	0.52	2.0E-41	11417118	NT	ZINC FINGER PROTEIN 135
9317	21984	35156	0.52	2.0E-41	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
11468	24071	37379	2.76	2.0E-41	AA372837.1	EST_HUMAN	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
3201	15984	28616	1.05	1.0E-41	BE869735.1	EST_HUMAN	EST184555 Colon adenocarcinoma IV Homo sapiens cDNA 5' end

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3201	15984	28617	1.05	1.0E-41	BE869735.1	EST_HUMAN	601445047F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3849803 5'
4528	17284	29897	14.08	1.0E-41	6878468	NT	Mus musculus tubulin alpha 6 (Tub68), mRNA
6749	17918	30582	0.66	1.0E-41	H99079.1	EST_HUMAN	yt18b03.s1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:262061 3'
9318	21985	35157	1.69	1.0E-41	A1217868.1	EST_HUMAN	q775c10.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755868 3'
11111	23781	37056	1.66	1.0E-41	AW847812.1	EST_HUMAN	IL3-CT0213-190200-040-F09 CT0213 Homo sapiens cDNA
12084	24571		2.81	1.0E-41	11528291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
8418	21111		1.14	9.0E-42	BE179191.1	EST_HUMAN	RCO-HT0613-210300-032-g01 HT0613 Homo sapiens cDNA
9072	21761	34922	3.49	9.0E-42	11560161	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9072	21761	34923	3.49	9.0E-42	11590151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
450	13236	25875	7.71	8.0E-42	AF003630.1	NT	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
2102	14833	27567	0.92	8.0E-42	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
12093	26277		4.4	8.0E-42	AA493896.1	EST_HUMAN	rh07c02.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943586 similar to TR:G434304 G434304 367BP EXPRESSED SEQUENCE TAG MRNA;
12111	26154		1.56	8.0E-42	AW088062.1	EST_HUMAN	xc97a04.x1 NCI_CGAP_Bn38 Homo sapiens cDNA clone IMAGE:2592174 3' similar to contains OFR.12
911	13678		2.58	7.0E-42	AL163285.2	NT	OFR repetitive element;
9143	21874	35039	1.67	7.0E-42	AL204358.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C085
11126	23795	37071	1.3	7.0E-42	AA569562.1	EST_HUMAN	qf58g12.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754278 3'
11126	23795	37072	1.3	7.0E-42	AA569562.1	EST_HUMAN	rf23g07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914662
1848	14586	27289	3.21	6.0E-42	AF012872.1	NT	rf23g07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:914662
1848	14586	27300	3.21	6.0E-42	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2287	15012		3.65	6.0E-42	AW238856.1	EST_HUMAN	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
5381	18181	30871	1.63	6.0E-42	AB028960.1	NT	xp28f08.x1 NCI_CGAP_HN10 Homo sapiens cDNA clone IMAGE:2741789 3' similar to contains L1.H L1 repetitive element;
5030	18181	30871	1.45	6.0E-42	AB028960.1	NT	Homo sapiens mRNA for KIAA1067 protein, partial cds
132	12947		7.53	5.0E-42	AJ271735.1	NT	Homo sapiens mRNA for KIAA1067 protein, partial cds
428	13214	25859	1.41	5.0E-42	BE217913.1	EST_HUMAN	Homo sapiens Xq pseudautosomal region; segment 1/2
474	13260		2.67	5.0E-42	5730038	NT	hw31e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3175052 3'
476	13261		2.74	5.0E-42	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
6687	19350	32363	1.04	5.0E-42	11433063	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
6687	19350	32364	1.04	5.0E-42	11433063	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA
6687	19350	32364	1.04	5.0E-42	11433063	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6704	19619	32662	3.12	5.0E-42	11417957	NT	Homo sapiens myotubularin related protein 3 (MTMR3), mRNA
7101	19789	32854	1.59	5.0E-42	AF071599.1	NT	Homo sapiens multifunctional calcium/calmodulin-dependent protein kinase II delta2 isoform mRNA, complete cds
7711	20375	33489	0.57	5.0E-42	4826977	NT	Homo sapiens reelin (RELN) mRNA
8677	21369	34515	3.55	5.0E-42	AB037715.1	NT	Homo sapiens reelin (RELN) mRNA
10920	23600	36849	2.44	5.0E-42	8923162	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
736	13510	26187	5.09	4.0E-42	AF055066.1	NT	Homo sapiens hypothetical protein FLJ20163 (FLJ20163), mRNA
736	13510	26188	5.09	4.0E-42	AF055068.1	NT	Homo sapiens MHC class 1 region
1044	13803	26492	3.48	4.0E-42	AF189011.1	NT	Homo sapiens MHC class 1 region
4171	16911	29541	1.22	4.0E-42	X59417.1	NT	Homo sapiens ribonuclease III (RN3) mRNA, complete cds
4202	16943	29570	1.07	4.0E-42	AF246219.1	NT	H. sapiens PROS-27 mRNA
4223	16904	29589	4.15	4.0E-42	4506498	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4543	17278	29609	15.12	4.0E-42	4508008	NT	Homo sapiens regulatory factor X, 4 (influences HLA class II expression) (RFX4) mRNA
10545	23241	36475	1.56	4.0E-42	AW818630.1	EST_HUMAN	Homo sapiens zinc finger protein 177 (ZNF177) mRNA
10545	23241	36476	1.56	4.0E-42	AW818630.1	EST_HUMAN	RC1-ST0278-040400-018-h11 ST0278 Homo sapiens cDNA
11389	23995	37297	1.5	4.0E-42	BF035327.1	EST_HUMAN	RC1-ST0278-040400-018-h11 ST0278 Homo sapiens cDNA
1468	14213	26902	2.81	2.0E-42	BF378834.1	EST_HUMAN	601468531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862088 5'
2413	15134		2.92	2.0E-42	AW898344.1	EST_HUMAN	RC0-TN0079-110900-024-g07 TN0079 Homo sapiens cDNA
2425	15146	27879	2.22	2.0E-42	AW250059.1	EST_HUMAN	RC3-NN0070-270400-011-h10 NN0070 Homo sapiens cDNA
5670	18465	31379	7.8	2.0E-42	AW055388.1	EST_HUMAN	2819293.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819293 3'
5670	18465	31380	7.8	2.0E-42	AW055388.1	EST_HUMAN	EST367438 MAGE resequences, MAGC Homo sapiens cDNA
6654	19416	32429	1.46	2.0E-42	AI052596.1	EST_HUMAN	EST367438 MAGE resequences, MAGC Homo sapiens cDNA
9741	22392	35598	1.32	2.0E-42	BE539919.1	EST_HUMAN	ow83d05.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1663417 3'
9955	22603	35807	0.88	2.0E-42	P81849	SWISSPROT	801081284F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447620 5'
9955	22603	35808	0.88	2.0E-42	P81849	SWISSPROT	RIBONUCLEASE K3 (RNASE K3)
11742	24334	37680	1.37	2.0E-42	AL163246.2	NT	RIBONUCLEASE K3 (RNASE K3)
717	13480	26143	1.21	1.0E-42	X57147.1	NT	Homo sapiens chromosome 21 segment HS21C046
1019	13779	26441	1.1	1.0E-42	AW295809.1	EST_HUMAN	Human endogenous retrovirus pHE.1 (ERV9)
1079	13837	26495	1.18	1.0E-42	AJ251818.1	NT	U1-H-B11-afh-e-04-Q-U1.s1 NCI_OGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721871 3'
1079	13837	26496	1.18	1.0E-42	AJ251818.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1220	15563	26841	16.49	1.0E-42	AF067166.1	NT	Homo sapiens partial C9 gene for complement component C9, exon 1
1220	15563	26842	16.49	1.0E-42	AF067166.1	NT	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds
1220	15563	26842	16.49	1.0E-42	AF067166.1	NT	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1696	14439	27137	1.13	1.0E-42	11423219	NT	Homo sapiens rec (LOC51201), mRNA
2546	15261	27998	1.63	1.0E-42	5174458	NT	Homo sapiens major histocompatibility complex, class II, DM alpha (HLA-DMA) mRNA
2864	15730	28380	10.26	1.0E-42	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORCSL) mRNA, and translated products
3695	16449	29088	2.6	1.0E-42	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
3905	16655	29298	1.17	1.0E-42	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C087
4221	16962	29587	1.92	1.0E-42	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4554	17289	29918	0.75	1.0E-42	AW813617.1	EST_HUMAN	RC3-ST0197-161099-012-a03 ST0197 Homo sapiens cDNA
4697	17431	30062	1.88	1.0E-42	5803122	NT	Homo sapiens proteasome inhibitor (PI31), mRNA
4697	17431	30063	1.88	1.0E-42	5803122	NT	Homo sapiens proteasome inhibitor (PI31), mRNA
4728	17490	30097	6.02	1.0E-42	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
5044	17763	30378	1.08	1.0E-42	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
5044	17763	30378	1.08	1.0E-42	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
9886	22634	35844	4.03	9.0E-43	4757969	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
637	13416	26052	19.69	8.0E-43	AV736824.1	EST_HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'
637	13416	26053	19.69	8.0E-43	AV736824.1	EST_HUMAN	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'
684	13459	26104	6.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
684	13459	26105	6.03	8.0E-43	8923276	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
5612	18408	31321	0.76	8.0E-43	H13962.1	EST_HUMAN	y08e11.t1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:148172 6'
3632	18385	29025	6.42	7.0E-43	AW248442.1	EST_HUMAN	2822251.5p1rme NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822251 5'
8667	21359		4.09	7.0E-43	A1936748.1	EST_HUMAN	wp69b01.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2466895 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN ; contains LTR7.b1 LTR7 repetitive element ;
1321	14070		10.45	6.0E-43	AA491890.1	EST_HUMAN	ne72d06.t1 NC1_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:908803 similar to gb:LD5085 60S
2600	15314		2.25	6.0E-43	AV708201.1	EST_HUMAN	RIBOSOMAL PROTEIN L30 (HUMAN);
6219	18983	31969	2.24	6.0E-43	9855973	NT	AV708201 ADC Homo sapiens cDNA clone ADGACC10 5'
6808	19469	32492	2.09	6.0E-43	AW468897.1	EST_HUMAN	Homo sapiens A TP-binding cassette, sub-family C (CFTR/MRP), member 3 (ABCC3), transcript variant MRP3B, mRNA
9751	22402	35807	2.16	6.0E-43	AA195154.1	EST_HUMAN	nd30b04.x1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:2810991 3' similar to contains MER1.t3 MER1 MER1 repetitive element ;
11044	23714		2.55	6.0E-43	AL119158.1	EST_HUMAN	zr35e06.t1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:665410 5' similar to TR:G529641 G529641 DB1, COMPLETE CDS ; contains element PTR7 repetitive element ;
138	12953		2.64	5.0E-43	AL163213.2	NT	DKFZp761L1712.j1 761 (synonym: harny2) Homo sapiens cDNA clone DKFZp761L1712 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
490	13275	25008	4.55	5.0E-43	AA382780.1	EST_HUMAN	EST196033 Testis Homo sapiens cDNA 5' end
2850	15618	28264	1.52	5.0E-43	AV732578.1	EST_HUMAN	AV732578 HTF Homo sapiens cDNA clone HTFANC06 5'
6213	19463	32484	1.17	5.0E-43	AI613509.1	EST_HUMAN	tw22e07.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2280452 3'
6602	19463	32484	0.72	5.0E-43	AI613509.1	EST_HUMAN	tw22e07.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2280452 3'
8778	21470		0.46	5.0E-43	H74277.1	EST_HUMAN	y449g12.r1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:228510 5'
9248	21927	35098	0.47	5.0E-43	AA044450.1	EST_HUMAN	z455a02.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486898 5' similar to gb:D28805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN);
9248	21927	35099	0.47	5.0E-43	AA044450.1	EST_HUMAN	z455a02.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486898 5' similar to gb:D28805 N-ACETYLACTOSAMINE SYNTHASE (HUMAN);
9264	22018	35186	4.44	5.0E-43	AA465288.1	EST_HUMAN	aa33d08.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 5'
10297	22944	36158	2.31	5.0E-43	AI733244.1	EST_HUMAN	oo52c10.x5 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1568810 3' similar to TR:P90591 P90591 PV14 GENE.;
10335	22982	36201	1.21	5.0E-43	AL049110.1	EST_HUMAN	DKFZp434D0119_r1_434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D0119
10663	23354	36593	5.29	5.0E-43	AW863007.1	EST_HUMAN	MIR2-SN0007-280400-00-4-c02 SN0007 Homo sapiens cDNA
10891	23571	36822	1.84	5.0E-43	W29011.1	EST_HUMAN	55a4 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
952	15519	26383	5.9	4.0E-43	AF003528.1	NT	Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
6178	17987	30502	1.02	4.0E-43	AI056338.1	EST_HUMAN	oy47h03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:1668013 3'
6276	19049	32026	0.7	4.0E-43	6996009	NT	Homo sapiens glycyl-tRNA synthetase (GARS), mRNA
7030	19722		2.32	4.0E-43	11416793	NT	Homo sapiens protocadherin beta 6 (PCDH6), mRNA
8077	20771	33900	5.21	4.0E-43	AI244341.1	EST_HUMAN	qj76a02.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.13
8077	20771	33901	5.21	4.0E-43	AI244341.1	EST_HUMAN	MER10 repetitive element;
10213	22861	36074	1.23	4.0E-43	6005967	NT	qj76a02.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.13
11275	23936	37228	1.66	4.0E-43	T77380.1	EST_HUMAN	Homo sapiens zinc finger protein 161 (ZNF161), mRNA
12030	24556		3.05	4.0E-43	R20950.1	EST_HUMAN	y472h10.r1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:113827 5'
1191	13943		4.58	3.0E-43	AF223391.1	NT	yc06b05.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31363 5' similar to contains MER10 repetitive element;
1690	14434	27130	2.07	3.0E-43	X97869.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3558	16313	28960	1.31	3.0E-43	S69002.1	NT	H. sapiens gene encoding La autoantigen
4258	16999	29629	1.04	3.0E-43	AA548154.1	EST_HUMAN	AML1-EVI-1=AML1-EVI-1 fusion protein (rearranged translocation) [human, leukemic cell line SKH1, mRNA Mutant, 5938 nt]

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5803	18593	31518	0.72	3.0E-43	D34613.1	NT	Human TBXAS1 gene for thromboxane synthase, promoter region and exon 1
6264	19038	32013	2.24	3.0E-43	7305360	NT	Mus musculus otogelin (Otog), mRNA
6264	19038	32014	2.24	3.0E-43	7305360	NT	Mus musculus otogelin (Otog), mRNA
6628	19360	32404	4.29	3.0E-43	U65487.1	NT	Human ribosomal RNA upstream binding transcription factor (UBTF) gene, partial cds
8063	20757		8.38	3.0E-43	AA458824.1	EST_HUMAN	aa8811.1 Stratiogene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413 3' similar to contains
8719	21411	34554	1.87	3.0E-43	7661721	NT	THR12 THR repetitive element;
9764	22415	35622	0.56	3.0E-43	11420217	NT	Homo sapiens hypothetical protein (HSA011916), mRNA
179	12991		7.67	2.0E-43	A190764.1	EST_HUMAN	Homo sapiens similar to ornithine carboxyltransferase (H. sapiens) (LOC63848), mRNA
6383	19152	32151	1.13	2.0E-43	BE222778.1	EST_HUMAN	cd81c09.x1 Soares_testis_NHT: Homo sapiens cDNA clone IMAGE:1733968 3' similar to contains PTR7.13
6383	19152	32151	1.13	2.0E-43	BE222778.1	EST_HUMAN	PTR7 PTR7 repetitive element;
7176	19882	32933	1.32	2.0E-43	AW207390.1	EST_HUMAN	hu33a08.x1 NCI_CGAP_Bm41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element
8207	20901		5.59	2.0E-43	U43701.1	NT	hu33a08.x1 NCI_CGAP_Bm41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element
11156	23823		4.94	2.0E-43	T03007.1	EST_HUMAN	hu33a08.x1 NCI_CGAP_Bm41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element
1645	14391	27080	2.94	1.0E-43	AF154836.1	NT	hu33a08.x1 NCI_CGAP_Bm41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element
1645	14391	27081	2.94	1.0E-43	AF154836.1	NT	hu33a08.x1 NCI_CGAP_Bm41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element
1700	14443	27142	1.57	1.0E-43	AF163284.2	NT	UIH-B11-af1-a-09-0-J1.1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721712 3'
2727	15434	28170	3.85	1.0E-43	BF348283.1	EST_HUMAN	Human ribosomal protein L23a mRNA, complete cds
5325	18126	30788	0.74	1.0E-43	4885544	NT	FB1G5 Fetal brain, Stratiogene Homo sapiens cDNA clone FB1G5 3' end similar to LINE-1
6514	19279	32280	8.45	1.0E-43	4507168	NT	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exons 1b and 2
6514	19279	32281	8.45	1.0E-43	4507168	NT	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exons 1b and 2
6870	17947	30542	1.36	1.0E-43	R19751.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
7833	20528	33655	1.13	1.0E-43	AF175265.1	NT	602022313F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157866 5'
7895	20660		4.03	1.0E-43	AF198490.1	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
8736	21428	34574	25.49	1.0E-43	AW903076.1	EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4) mRNA
10189	22837	36052	0.66	1.0E-43	AW903229.1	EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4) mRNA
10884	23584	36812	8.11	1.0E-43	A1984661.1	EST_HUMAN	yg40a01.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:34732 5' similar to
11338	24028	37332	4.78	1.0E-43	11424378	NT	SP-BD38_MOUSE P28666 BRAIN PROTEIN DN38 ;
11975	24520		3.04	1.0E-43	AL137984.1	EST_HUMAN	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds
12253	24699	31079	1.89	1.0E-43	A1675416.1	EST_HUMAN	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12469	24835	31032	3.41	9.0E-44	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
870	13639	26309	6.23	8.0E-44	A1222985.1	EST_HUMAN	qh23g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
870	13639	26310	6.23	8.0E-44	A1222985.1	EST_HUMAN	qh23g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1845552 3'
8437	21129	34266	2.87	8.0E-44	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
10236	22884	36097	0.47	8.0E-44	11423497	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
10236	22884	36098	0.47	8.0E-44	11423497	NT	Homo sapiens small proline-rich protein 2C (SPRR2C), mRNA
11117	23787	37064	3.78	8.0E-44	Y10498.2	NT	Homo sapiens mRNA for thymidine kinase, partial
11688	24283	37806	1.36	8.0E-44	L28139.1	NT	Homo sapiens myosin mRNA, partial cds
12207	24673	31073	4.09	8.0E-44	11527389	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide F (POLR2F), mRNA
12248	25009	30978	1.38	8.0E-44	11418088	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12589	25186	30808	2.55	8.0E-44	11418069	NT	Homo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA
644	13423		0.69	7.0E-44	R06035.1	EST_HUMAN	ye89e01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:124920 5'
2228	14956	27698	1.05	7.0E-44	5031886	NT	Homo sapiens LIM domain-containing preferred translocation partner in lipoma (LPP) mRNA
2666	15732	28381	2.58	7.0E-44	AF048729.1	NT	Homo sapiens minisatellite ms32 repeat region
2866	15732	28382	2.58	7.0E-44	AF048729.1	NT	Homo sapiens minisatellite ms32 repeat region
3843	16584	29231	2.54	7.0E-44	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4217	16958	29581	1.12	7.0E-44	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
4217	16958	29582	1.12	7.0E-44	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
5142	17890	30478	1.01	7.0E-44	4505646	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
8085	20779	33008	2.28	7.0E-44	AU159839.1	EST_HUMAN	AU159839 Y79AA1 Homo sapiens cDNA clone Y79AA1000496 3'
6012	18783	31766	0.94	6.0E-44	Z20946.1	EST_HUMAN	HSAAADEYU P, Human fetal Brain Whole tissue Homo sapiens cDNA
11781	24372	37702	1.79	6.0E-44	AW954050.1	EST_HUMAN	EST368120 IMAGE resequences, MAGC Homo sapiens cDNA
296	13102		3.3	5.0E-44	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
323	13124		2.72	5.0E-44	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene
7788	20483	33607	4.96	5.0E-44	AI568523.1	EST_HUMAN	tr40d02.x1 NCI_CGAP_Brm25 Homo sapiens cDNA clone IMAGE:2170083 3' similar to contains OFR.t1
9284	22038		2.34	5.0E-44	AU124571.1	EST_HUMAN	OFR OFR repetitive element;
3408	16167	28816	3.75	4.0E-44	AL163303.2	NT	AU124571 NT2RM4 Homo sapiens cDNA clone NT2RM4000218 5'
7370	20050	33131	0.86	4.0E-44	BE883178.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C103
8169	20863	33995	0.78	4.0E-44	L21948.1	NT	601508601F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3910152 5'
8777	21469		0.51	4.0E-44	BE176818.1	EST_HUMAN	Human fibrillin (FBN1) locus polymorphism
11202	23866	37153	5.38	4.0E-44	U80878.1	NT	RC3-HT0585-010400-023-008 HT0585 Homo sapiens cDNA
3094	15859	28500	5.77	3.0E-44	AA169851.1	EST_HUMAN	Homo sapiens carboxyl terminal LIM domain protein (CLIM1) mRNA, complete cds
							zp18605.r1 Strategene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609777 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3870	16620	29280	1.37	3.0E-44	AA337234.1	EST_HUMAN	EST42289 Endometrial tumor Homo sapiens cDNA 5' end similar to alpha-1-antitrypsin F
9419	22097	35269	0.55	3.0E-44	AF005273.1	NT	Sus scrofa domestica submaxillary mucin mRNA, complete cds
1027	13787	26446	2.84	2.0E-44	4826885	NT	Homo sapiens DEADH (Aap-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1027	13787	26447	2.84	2.0E-44	4826885	NT	Homo sapiens DEADH (Aap-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA
1185	13637	26602	3.36	2.0E-44	5803200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1185	13637	26603	3.36	2.0E-44	5803200	NT	Homo sapiens transmembrane trafficking protein (TMP21), mRNA
1289	14038	26711	4.06	2.0E-44	AF133588.1	NT	Homo sapiens RAB36 (RAB36) mRNA, complete cds
1347	14095	26770	1.3	2.0E-44	BE465325.1	EST_HUMAN	hw14g06.x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE:3182838 3' similar to SW:OXYB_HUMAN
2147	14877	27612	2.22	2.0E-44	AF070651.1	NT	P22059 OXYSTEROL-BINDING PROTEIN ;
2616	15327	28873	1.31	2.0E-44	5901933	NT	Homo sapiens tissue-type bone marrow zinc finger protein 4 mRNA, complete cds
3463	16219	28873	1.13	2.0E-44	D87675.1	NT	Homo sapiens adaptor-related protein complex 4, sigma 1 subunit (CLAPS4), mRNA
4331	17266	29899	1.54	2.0E-44	AW864378.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
6004	18785	31747	1.87	2.0E-44	11449901	NT	PM4-SN0016-120500-003-g04 SN0016 Homo sapiens cDNA
							Homo sapiens chemokine (C-C motif) receptor 9 (CCR9), mRNA
6758	17927	30562	3.31	2.0E-44	AF038968.1	NT	Homo sapiens general transcription factor 2-1 (GTF2I) mRNA, alternatively spliced product, complete cds
7313	19996	33074	4.57	2.0E-44	11419228	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
7313	19996	33075	4.57	2.0E-44	11419228	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
8327	21020	34155	0.67	2.0E-44	7706370	NT	Homo sapiens vesicle transport-related protein (KIAA0917), mRNA
8327	21020	34156	0.67	2.0E-44	7706370	NT	Homo sapiens vesicle transport-related protein (KIAA0917), mRNA
8517	21209	34352	1.58	2.0E-44	BE389058.1	EST_HUMAN	601286914F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613588 5'
							TCBAP1E2795 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCBA Homo sapiens cDNA clone TCBAP2795
11883	24456		1.62	2.0E-44	BE244902.1	EST_HUMAN	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
12760	25020		1.4	2.0E-44	11526283	NT	Homo sapiens Mink1/NIK-related kinase (MINK), mRNA
51	12880	25507	2.43	1.0E-44	7657334	NT	Homo sapiens Mink1/NIK-related kinase (MINK), mRNA
51	12880	25508	2.43	1.0E-44	7657334	NT	Homo sapiens Mink1/NIK-related kinase (MINK), mRNA
566	13347	25975	2.44	1.0E-44	AW853132.1	EST_HUMAN	RC1-CT0249-030300-028-h12 CT0249 Homo sapiens cDNA
1175	13928		1.9	1.0E-44	AW984803.1	EST_HUMAN	RC1-BN0039-110300-012-b01 BN0039 Homo sapiens cDNA
1567	14314		5.78	1.0E-44	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
							zw53402.r1 Soares fetal_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773763 5' similar to contains THR13 THR repetitive element ;
2221	14949	27887	3.74	1.0E-44	AA434554.1	EST_HUMAN	zw53402.r1 Soares fetal_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773763 5' similar to contains THR13 THR repetitive element ;
2221	14949	27888	3.74	1.0E-44	AA434554.1	EST_HUMAN	zw53402.r1 Soares fetal_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773763 5' similar to contains THR13 THR repetitive element ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2280	15590	27746	0.96	1.0E-44	AA398099.1	EST_HUMAN	z88g11.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:729476 5'
2763	15468	28211	1.44	1.0E-44	AF196779.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel $\alpha 2$
3712	16465		3.73	1.0E-44	AA455869.1	EST_HUMAN	es01c09.s1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:811984 3'
5048	17767	30385	1.04	1.0E-44	AJ130755.1	NT	Homo sapiens alpha satellite DNA, M1 monomer type
5048	17767	30386	1.04	1.0E-44	AJ130755.1	NT	Homo sapiens alpha satellite DNA, M1 monomer type
8163	20857	33988	0.98	1.0E-44	AW967073.1	EST_HUMAN	EST378147 MAGE resequences, MAGJ Homo sapiens cDNA
8163	20857	33989	0.98	1.0E-44	AW967073.1	EST_HUMAN	EST378147 MAGE resequences, MAGJ Homo sapiens cDNA
8544	21236	34380	0.98	1.0E-44	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8924	21615	34759	0.69	1.0E-44	AI337183.1	EST_HUMAN	q988g07.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2009628 3'
10936	23616		4.04	1.0E-44	AV714808.1	EST_HUMAN	AV714808 DOB Homo sapiens cDNA clone DCBBYE03 5'
11516	24116	37427	3.92	1.0E-44	10092884	NT	Homo sapiens Sushi domain (SCR repeat) containing (BK65A6.2), mRNA
11583	24182	37496	3.17	1.0E-44	AW849667.1	EST_HUMAN	RC1-CT0198-150999-011-C08 CT0198 Homo sapiens cDNA
11583	24182	37497	3.17	1.0E-44	AW849667.1	EST_HUMAN	RC1-CT0198-150999-011-C08 CT0198 Homo sapiens cDNA
4539	17274	29906	1.38	9.0E-45	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4539	17274	29907	1.38	9.0E-45	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
6552	19317	32323	1.31	9.0E-45	AB023212.1	NT	Homo sapiens mRNA for KIAA0996 protein, partial cds
2527	15243	27982	3.12	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
5023	17744	30355	6.41	8.0E-45	5174718	NT	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
6414	19182	32181	0.86	8.0E-45	AW892763.1	EST_HUMAN	GMO-NIN005-130300-283-509 NN005 Homo sapiens cDNA
8008	20701	33830	0.91	8.0E-45	AA377985.1	EST_HUMAN	EST80893 Synovial sarcoma Homo sapiens cDNA 5' and repetitive element;
1545	14291		1.01	6.0E-45	AI675425.1	EST_HUMAN	wb89c06.x1 NCI_CGAP_Py28 Homo sapiens cDNA clone IMAGE:2313802 3' similar to contains L1.H L1
3960	16709		4.09	6.0E-45	AW157570.1	EST_HUMAN	au83h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782809 3' similar to SW_R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L13A;
12556	25378		1.85	6.0E-45	11418213	NT	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA
872	13641		1.03	5.0E-45	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1995	14731	27453	3.85	5.0E-45	BF333627.1	EST_HUMAN	GMA-CN0044-180200-518-101 CN0044 Homo sapiens cDNA
3204	15967	28621	1.79	5.0E-45	AI523796.1	EST_HUMAN	tg94f07.x1 NCI_CGAP_CELL1 Homo sapiens cDNA clone IMAGE:2116453 3' similar to SW.PAX1_MOUSE
6425	18224	30935	8.76	5.0E-45	AA397781.1	EST_HUMAN	P00084 PAIRED BOX PROTEIN PAX-1;
5929	18713	31669	1.31	5.0E-45	Y18933.1	NT	z17203.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727877 3' similar to contains element TAR1 repetitive element;
						EST_HUMAN	Homo sapiens MCP-1 gene and enhancer region

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5929	18713	31670	1.31	5.0E-45	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5974	18768	31717	0.79	5.0E-45	AB022318.1	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
5974	18766	31718	0.79	5.0E-45	AB022318.1	NT	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds
6096	18874	31842	1.02	5.0E-45	11496268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6096	18874	31843	1.02	5.0E-45	11496268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
8174	20886	34000	0.73	5.0E-45	11418704	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
8939	21630	34773	1.95	5.0E-45	4759223	NT	Homo sapiens programmed cell death 5 (PDCD5), mRNA
11697	24292	37617	2.59	5.0E-45	8923098	NT	Homo sapiens golgin-like protein (GLP), mRNA
1121	13877	28536	9.58	4.0E-45	X95828.1	NT	H. sapiens ART4 gene
2289	15014	27750	2.42	4.0E-45	BE265622.1	EST_HUMAN	601194440F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3538425 5'
8855	21546		0.82	4.0E-45	AA228220.1	EST_HUMAN	nc28e07.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1009284 similar to contains element L1
4066	16086		1.35	3.0E-45	T71480.1	EST_HUMAN	repetitive element;
6142	18920	31860	1.36	3.0E-45	6753651	NT	yc33607.f1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:110245 5'
6142	18920	31891	1.36	3.0E-45	6753651	NT	Mus musculus dynein, exon, heavy chain 11 (Dnaic11), mRNA
8350	21043		1.4	3.0E-45	AV723976.1	EST_HUMAN	Mus musculus dynein, exon, heavy chain 11 (Dnaic11), mRNA
8690	21382	34528	3.74	3.0E-45	4758451	NT	AV723976 HTB Homo sapiens cDNA clone HTBAA.G01 5'
10208	22854	36068	13.43	3.0E-45	AL183227.2	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 2 (GOLGA2) mRNA
10208	22854	36069	13.43	3.0E-45	AL183227.2	NT	Homo sapiens chromosome 21 segment HS21C027
12670	25314		2.35	3.0E-45	X89211.1	NT	Homo sapiens chromosome 21 segment HS21C027
2506	15223		2.21	2.0E-45	AL183218.2	NT	H. sapiens DNA for endogenous retroviral like element
3029	15795	28441	1.22	2.0E-45	AL243213.1	NT	Homo sapiens chromosome 21 segment HS21C018
6429	19197	32194	5.15	2.0E-45	L01665.1	NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
7510	20181	33274	1.22	2.0E-45	BE782184.1	EST_HUMAN	Human eosinophil Charcot-Leyden crystal (CLC) protein (lysophospholipase) gene, promoter and exon 1
8314	21007	34145	0.78	2.0E-45	AW834834.1	EST_HUMAN	601467793F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870838 5'
9485	22138	35318	0.48	2.0E-45	AI638786.1	EST_HUMAN	RC3-LT0001-150200-032-411 LT0001 Homo sapiens cDNA
10705	25130	36633	18.28	2.0E-45	BE934350.1	EST_HUMAN	ts56a01.x1 NCI_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2232562 3'
11129	23797	37073	4.16	2.0E-45	AA458770.1	EST_HUMAN	MRO-HT0923-190800-201-a02 HT0923 Homo sapiens cDNA
11488	24089	37400	1.75	2.0E-45	AW270280.1	EST_HUMAN	aa87f12.f1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838319 5' similar to
11488	24089	37401	1.75	2.0E-45	AW270280.1	EST_HUMAN	TR:G1144569 G1144569 R-SL Y1.;
12711	24987		3.93	2.0E-45	11418157	NT	xp72a03.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745868 3'
120	13185		-1.6	1.0E-45	BE389855.1	EST_HUMAN	xp72a03.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745868 3'
							Homo sapiens calcium channel, voltage-dependent, alpha 1I subunit (CACNA1I), mRNA
							601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606183 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
400	13185		2.17	1.0E-45	BE389855.1	EST_HUMAN	601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606183 5'
460	13245	25887	1.38	1.0E-45	4506412	NT	Homo sapiens RAP1A, member of RAS oncogene family (RAP1A), mRNA
1151	13906	26569	1.79	1.0E-45	7657290	NT	Homo sapiens Langerhans cell specific c-type lectin (LANGERIN), mRNA
3101	15966	28507	7.42	1.0E-45	U32169.1	NT	Human pro- $\alpha 2$ chain of collagen type XI (COL11A2) gene, complete cds
3483	16240	28997	1.38	1.0E-45	8850558	NT	Homo sapiens chromosome 21 open reading frame 1 (C21orf4), mRNA
3560	16315	28962	1.19	1.0E-45	AB046811.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
4442	17178	29804	5.01	1.0E-45	BE396633.1	EST_HUMAN	601289116F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619803 5'
4677	17411		1.04	1.0E-45	H57443.1	EST_HUMAN	y05602.t1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:204303 5'
7930	20625	33752	0.77	1.0E-45	11422236	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
7930	20625	33753	0.77	1.0E-45	11422236	NT	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mRNA
8505	21197	34341	0.96	1.0E-45	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
9019	21709	34861	5.08	1.0E-45	BE897843.1	EST_HUMAN	601511226F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912535 5'
9422	22100	35272	1.22	1.0E-45	AB002297.1	NT	Human mRNA for KIAA0296 gene, partial cds
11734	24327	37651	1.33	1.0E-45	7019570	NT	Homo sapiens alpha-catenin-like protein (VR22), mRNA
12087	24592	31125	6.93	1.0E-45	11418099	NT	Homo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA
12283	24708		11.18	1.0E-45	11520291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12289	24711		5.28	1.0E-45	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12680	24969	30981	2.6	1.0E-45	11418157	NT	Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA11), mRNA
8127	20821	33958	1.7	9.0E-46	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
8532	21224		5.86	9.0E-46	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
10378	23024	36239	11.23	9.0E-46	AW246964.1	EST_HUMAN	2822449.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822449 5'
2443	15162	27899	13.53	8.0E-46	AK433261.1	EST_HUMAN	t83208.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132198 3' similar to gb:J00314_ma2
2443	15162	27900	13.53	8.0E-46	AK433261.1	EST_HUMAN	TUBULIN BETA-1 CHAIN (HUMAN);
7653	20848		5.99	8.0E-46	BE187244.1	EST_HUMAN	t83208.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132198 3' similar to gb:J00314_ma2
2232	14960	27700	1.03	7.0E-46	U46007.1	NT	TUBULIN BETA-1 CHAIN (HUMAN);
4541	17276		3.38	7.0E-46	BE396195.1	EST_HUMAN	RC5-HT0508-280200-012-C12 HT0508 Homo sapiens cDNA
4755	17487		1.33	7.0E-46	BE094386.1	EST_HUMAN	Rattus norvegicus espin mRNA, complete cds
5951	18733	31862	4.01	7.0E-46	8922708	NT	601277292F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618119 5'
6402	19171	32170	1.14	7.0E-46	BF105845.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA
2759	15464	28207	3.99	6.0E-46	AI884381.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10847 (FLJ10847), mRNA
							601822835F1 NIH_MGC_77 Homo sapiens cDNA clone IMAGE:4042736 5'
							wm31108.x1 NCI_CGAP_U44 Homo sapiens cDNA clone IMAGE:2437575 3' similar to contains MER19.12
							MER19 repetitive element;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2759	15464	28208	3.99	6.0E-46	AI884381.1	EST_HUMAN	wm31f08.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437575 3' similar to contains MER19.12 MER19 repetitive element;
6038	18818	31779	10.94	6.0E-46	AK354448.1	EST_HUMAN	ts58h10.x1 NCL_CGAP_K08 Homo sapiens cDNA clone IMAGE:2232835 3' similar to TR:O60363 O60363 SA GENE.;
7116	19804	32888	0.72	6.0E-46	AW513244.1	EST_HUMAN	xa42a04.x1 NCL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2706654 3' similar to gb:U08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
11364	23175		2.04	6.0E-46	BE784971.1	EST_HUMAN	601478409F1 NH_MCC_68 Homo sapiens cDNA clone IMAGE:3880995 5'
199	13012		8.9	5.0E-46	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
3519	16275	28929	1.07	5.0E-46	BE677194.1	EST_HUMAN	7d81g01.x1 Lupsid_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3279408 3'
3519	16275	28930	1.07	5.0E-46	BE677194.1	EST_HUMAN	7d81g01.x1 Lupsid_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3279408 3'
6636	19398	32413	1.86	5.0E-46	BF580442.1	EST_HUMAN	nas38107.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258757 3' similar to TR:O75202 O75202 HOMOLOG OF RAT KIDNEY-SPECIFIC;
6842	19542	32570	4.28	5.0E-46	BF347229.1	EST_HUMAN	602021164F1 NCL_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4156670 5'
6895	19687	32736	0.62	5.0E-46	AW582253.1	EST_HUMAN	QV4-ST0212-120100-075-f08 ST0212 Homo sapiens cDNA
9515	22168	36560	0.47	5.0E-46	AA396381.1	EST_HUMAN	262c08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726926 3'
626	13405		1.4	4.0E-46	AA601143.1	EST_HUMAN	no54e09.s1 NCL_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X63741_ma1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
1699	14442	27140	6.86	4.0E-46	AW770544.1	EST_HUMAN	h86c03.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008836 3' similar to gb:X14008_ma1 LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element;
1699	14442	27141	6.86	4.0E-46	AW770544.1	EST_HUMAN	h86c03.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3008836 3' similar to gb:X14008_ma1 LYSOZYME C PRECURSOR (HUMAN); contains element MER37 repetitive element;
2743	15449	28188	2.62	4.0E-46	M18048.1	NT	Human endogenous retrovirus RTVL-H2
4384	17121	29753	1.04	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0622 protein, partial cds
4384	17121	29754	1.04	4.0E-46	AB014522.1	NT	Homo sapiens mRNA for KIAA0622 protein, partial cds
5350	18153	30834	2.43	4.0E-46	M36852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
5350	18153	30835	2.43	4.0E-46	M36852.1	NT	Human Ig germline gamma-3 heavy-chain gene V region, partial cds
12513	24863	31014	2.71	4.0E-46	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
2156	14885	27618	0.9	3.0E-46	5453620	NT	Homo sapiens solute carrier family 35 (CNP-sialic acid transporter), member 1 (SLC35A1), mRNA
2429	15150	27884	0.96	3.0E-46	AF160212.1	NT	Homo sapiens VAMP-associated 33 kDa protein mRNA, complete cds
4362	17100	29735	0.79	3.0E-46	4506379	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 3 (MAP4K3), mRNA
4724	17456	30091	1.2	3.0E-46	Z73680.1	NT	H. sapiens Ig lambda light chain variable region gene (7c.11.2) germline; Ig-Light-Lambda; VLambda

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4724	17458	30092	1.2	3.0E-46	Z73680.1	NT	H. sapiens Ig lambda light chain variable region gene (7c.11.2) germ-line; Ig-Light-Lambda; VLambda
8847	21339	34483	7.59	3.0E-46	A1831462.1	EST_HUMAN	w49c04.x1 NCI_CGAP_Lu18 Homo sapiens cDNA clone IMAGE:2406160 3' similar to contains THR.b2
11584	24163	37474	2.19	3.0E-46	D31785.1	NT	THR repetitive element ;
817	13588	26255	7.64	2.0E-46	AA468846.1	EST_HUMAN	Human mRNA for KIAA0061 gene, partial cds
1554	14301		1.56	2.0E-46	AA678246.1	EST_HUMAN	ne05e09.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR
1637	14383	27070	3.43	2.0E-46	U78027.1	NT	repetitive element ;
4917	17645	30258	1.2	2.0E-46	AA399286.1	EST_HUMAN	z27a11.s1 Soares fetal liver spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:431898 3'
7384	20064	33142	7.67	2.0E-46	9910509	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein
7968	20663		1.46	2.0E-46	BE839151.1	EST_HUMAN	(L44L) and FTP3 (FTP3) genes, complete cds
12257	25179		1.5	2.0E-46	H48391.1	EST_HUMAN	z59a02.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:726650 5' similar to SW:RSP1_MOUSE
12575	25170	30902	3.38	2.0E-46	AW27214.1	EST_HUMAN	Q01730 RSP-1 PROTEIN ;
1211	13961	26628	7.67	1.0E-46	4502694	NT	Mus musculus sperm tail associated protein (Slap), mRNA
1566	14313	26999	1.23	1.0E-46	7862177	NT	001445137F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849287 5'
1566	14313	27000	1.23	1.0E-46	7862177	NT	y32d01.r1 Soares fetal liver spleen_1NFLS_Homo sapiens cDNA clone IMAGE:206977 5'
2279	15005	27745	3.44	1.0E-46	AW978516.1	EST_HUMAN	xq78h03.x1 NCI_CGAP_Lu34 Homo sapiens cDNA clone IMAGE:2756789 3'
2399	15120	27857	3.06	1.0E-46	H97330.1	EST_HUMAN	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
3243	18005	28654	4.55	1.0E-46	AA631912.1	EST_HUMAN	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
4818	17549		3.17	1.0E-46	AB023197.1	NT	EST390825 IMAGE resequences, MAGP Homo sapiens cDNA
5613	18409	31322	6.88	1.0E-46	BF194707.1	EST_HUMAN	EST485095 WATM1 Homo sapiens cDNA clone 485095
5888	25080	31617	6.14	1.0E-46	8923762	NT	np78b02.e1 NCI_CGAP_P12 Homo sapiens cDNA clone IMAGE:1132395 similar to gb:X76717 H.sapiens
10770	19409	31322	5.27	1.0E-46	BF194707.1	EST_HUMAN	MT-11 mRNA (HUMAN);
11747	24338	37665	1.53	1.0E-46	AW023178.1	EST_HUMAN	Homo sapiens mRNA for KIAA0980 protein, partial cds
11747	24338	37668	1.53	1.0E-46	AW023178.1	EST_HUMAN	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
12044	24564	31115	2.28	1.0E-46	BF631102.1	EST_HUMAN	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
12044	24564	31116	2.28	1.0E-46	BF631102.1	EST_HUMAN	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA
12778	25032		2.37	1.0E-46	AV715377.1	EST_HUMAN	af50e03.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2488861 5'
750	13522		6.18	9.0E-47	AJ271735.1	NT	af50e03.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2488861 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4879	17608	30229	3.02	9.0E-47	AW770828.1	EST_HUMAN	H93604.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3009534 3' similar to TR:O75703 O75703
6284	19057	32037	0.6	8.0E-47	11425439	NT	HYPOPHYSICAL 12.4 KD PROTEIN.;
12631	25270	30725	2	9.0E-47	11417986	NT	Homo sapiens zfin finger protein ZNF286 (ZNF286), mRNA
1801	14541	27252	6.88	8.0E-47	Y18636.1	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
1801	14541	27253	6.88	8.0E-47	Y18636.1	NT	Homo sapiens HLA-C gene, exon 5, individual 18323
							Homo sapiens HLA-C gene, exon 5, individual 18323
2722	15429	28167	1.04	8.0E-47	5483956	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), epsilon isoform (PPP2R5E) mRNA
3024	15780	28438	1.99	8.0E-47	AJ229043.1	NT	Homo sapiens 950 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
3613	16366	29009	0.68	8.0E-47	AB041926.1	NT	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds
3613	16366	29010	0.68	8.0E-47	AB041926.1	NT	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds
12604	25169		1.38	7.0E-47	AV883284.1	EST_HUMAN	AV883284 GKC Homo sapiens cDNA clone GKCASH11 5'
2550	15285	28000	1.68	8.0E-47	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
8592	21284	34423	0.49	6.0E-47	U77054.1	EST_HUMAN	HSU77054 Human Homo sapiens cDNA clone N7
9176	21846	35012	6.76	6.0E-47	AI69189.1	EST_HUMAN	b28h02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2296659 3'
9612	22265	35450	0.68	8.0E-47	AB042824.1	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
9612	22265	35451	0.68	8.0E-47	AB042824.1	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
6482	19249	32249	6.67	5.0E-47	11423972	NT	Homo sapiens CDC37 (cell division cycle 37, S. cerevisiae, homolog) (CDC37), mRNA
10696	23387		5.27	5.0E-47	M78590.1	EST_HUMAN	EST00738 Fetal brain, Strategene (cat#636206) Homo sapiens cDNA clone HFBCE07
1379	14128	28801	3.29	4.0E-47	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
6733	19567	32599	1.9	4.0E-47	BE938998.1	EST_HUMAN	MR4-TN0108-280800-201-d04 TN0108 Homo sapiens cDNA
8378	21072	34210	2.42	4.0E-47	BE618483.1	EST_HUMAN	601280486F1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3622437 5'
8378	21072	34211	2.42	4.0E-47	BE618483.1	EST_HUMAN	601280486F1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3622437 5'
8516	21208	34351	0.61	4.0E-47	AW963777.1	EST_HUMAN	RC3-BN0034-220300-015-06 BN0034 Homo sapiens cDNA
							xx66507.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2848597 3' similar to SW:INT6_MOUSE
11635	24232		2.83	4.0E-47	AW515509.1	EST_HUMAN	Q64252 VIRAL INTEGRATION SITE PROTEIN INT-6, [1];
631	13316	26950	2.05	3.0E-47	BE007634.1	EST_HUMAN	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5'
531	13315	25951	2.05	3.0E-47	BE907634.1	EST_HUMAN	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5'
799	13571	26232	6.45	3.0E-47	N57483.1	EST_HUMAN	y54604.s1 Soares multiple sclerosis 2NblMSP Homo sapiens cDNA clone IMAGE:277327 3'
924	13691	26355	10.25	3.0E-47	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
3296	18058	28707	0.79	3.0E-47	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3948	16698		5.77	3.0E-47	U93181.1	NT	Homo sapiens nuclear dual-specificity phosphatase (SBF1) mRNA, partial cds
4328	17068	29696	1.32	3.0E-47	M12959.1	NT	Human T-cell receptor active alpha-chain mRNA from JM cell line, complete cds
5922	18707	31659	5.41	3.0E-47	AW408800.1	EST_HUMAN	UHF-BM0-ebc-d-07-0-UJ.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5922	18707	31660	5.41	3.0E-47	AW408800.1	EST_HUMAN	UIHIF-BM0-adv-d-07-q-UII1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 5'
8469	19236		1.76	3.0E-47	A122413.1	EST_HUMAN	qf04407.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843716 3'
8732	21424	34569	0.71	3.0E-47	AW963796.1	EST_HUMAN	EST3758669 IMAGE resequences, MAGH Homo sapiens cDNA
8732	21424	34570	0.71	3.0E-47	AW963796.1	EST_HUMAN	EST3758669 IMAGE resequences, MAGH Homo sapiens cDNA
143	12868	25600	1.61	2.0E-47	4505318	NT	Homo sapiens myosin phosphatase, target subunit 2 (MYPT2), mRNA
947	13713	26377	2.69	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
947	13713	26378	2.69	2.0E-47	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
1560	14307		0.98	2.0E-47	AF69279.1	EST_HUMAN	wq96602.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2479851 3'
1588	14334	27022	1.75	2.0E-47	7682109	NT	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
1673	14418	27111	3.41	2.0E-47	AA524514.1	EST_HUMAN	tg43h12.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:937607 3'
4313	17052	29677	2	2.0E-47	4504868	NT	Homo sapiens ring finger protein (C3HC4 type) 8 (RNF8), mRNA
4351	17090	29722	1.5	2.0E-47	AA569592.1	EST_HUMAN	nf23g07.s1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:914652
4351	17090	29723	1.5	2.0E-47	AA569592.1	EST_HUMAN	nf23g07.s1 NCI_CGAP_P11 Homo sapiens cDNA clone IMAGE:914652
4471	17206	29832	1.96	2.0E-47	5174648	NT	Homo sapiens RevRex activation domain binding protein-related (RAB-R) mRNA
4761	17483	30121	1.3	2.0E-47	AW965166.1	EST_HUMAN	EST377239 IMAGE resequences, MAGI Homo sapiens cDNA
5698	18490	31411	1.12	2.0E-47	AF073921.1	NT	Homo sapiens regulator of G-protein signaling 6 variant form (RGS6) mRNA, complete cds
5887	18673	31615	1.23	2.0E-47	BE778475.1	EST_HUMAN	601463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3867487 5'
5887	18673	31616	1.23	2.0E-47	BE778475.1	EST_HUMAN	601463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3867487 5'
7598	25116		1.43	2.0E-47	L09731.1	NT	Homo sapiens 6-hydroxytryptamine 1D receptor pseudogene with an Alu repeat insertion
7884	20559	33685	1.92	2.0E-47	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
7884	20559	33686	1.92	2.0E-47	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
8618	21310	34452	1.97	2.0E-47	AF071771.1	NT	Homo sapiens SPH-binding factor mRNA, partial cds
9389	22051	35222	0.77	2.0E-47	11526136	NT	Homo sapiens BTG family, member 3 (BTG3), mRNA
11451	23218	36451	1.27	2.0E-47	M76125.1	NT	Human tyrosine kinase receptor (ad) mRNA, complete cds
12077	29312	30709	1.75	2.0E-47	R42423.1	EST_HUMAN	Y82e08.s1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:28666 3' similar to contains OFR repetitive element;
1384	14131	26804	7.35	1.0E-47	A1333429.1	EST_HUMAN	q99h03.x1 Soares_fetal_lung_NHL10W Homo sapiens cDNA clone IMAGE:1931189 3'
5017	17738	30347	1.96	1.0E-47	AW613906.1	EST_HUMAN	RC3-ST0197-130400-017-h02 ST0197 Homo sapiens cDNA
6944	19426	32441	6.79	1.0E-47	A1880886.1	EST_HUMAN	ek19e06.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2355586 3' similar to gb:M22895
8707	21459		0.56	1.0E-47	AW664648.1	EST_HUMAN	RAS-RELATED PROTEIN RAP-1A (HUMAN);
10254	22902	36112	2.28	1.0E-47	L30115.1	NT	h84a11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978972 3' similar to gb:M26328 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
							Papio hemadryas alcohol dehydrogenase class I (ADH) gene, 5' region

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1607	14353	27041	3.03	9.0E-48	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3544	16299	28950	0.82	9.0E-48	BF359947.1	EST_HUMAN	GM2-MT0100-310700-290-405 MTD100 Homo sapiens cDNA
5594	18389	31299	0.86	9.0E-48	BE888196.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'
5594	18389	31300	0.86	9.0E-48	BE888198.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'
6010	18791	31754	0.86	9.0E-48	AB833168.1	EST_HUMAN	at7b09.x1 Barstead cdon HPLRB7 Homo sapiens cDNA clone IMAGE:2377889 3' similar to TR:O60844
6131	18909	31877	0.84	9.0E-48	AU123240.1	EST_HUMAN	O60844 HOMOLOG OF RAT ZYMOGEN GRANULE MEMBRANE PROTEIN. ;
11060	23730	37002	3.09	9.0E-48	BE393813.1	EST_HUMAN	AU123240 NT2RM1 Homo sapiens cDNA clone NT2RM1000978 5'
1228	13978		1.44	8.0E-48	4501900	NT	601310479F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632083 5'
1229	13978		1.7	8.0E-48	4501900	NT	Homo sapiens aminocyclase 1 (ACY1), mRNA
3132	15897	28541	4.38	8.0E-48	AW768477.1	EST_HUMAN	Homo sapiens aminocyclase 1 (ACY1), mRNA
3132	15897	28542	4.38	8.0E-48	AW768477.1	EST_HUMAN	h161503.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' similar to gb:X64707
3911	16661	29302	0.79	8.0E-48	4504116	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
478	13284		1.27	7.0E-48	AB033035.1	NT	h161503.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' similar to gb:X64707
479	13284		17.09	7.0E-48	AB033035.1	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
1483	14230	26916	0.98	7.0E-48	6912719	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
1634	14380	27067	3.89	7.0E-48	5730038	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
6460	19227	32227	27.21	7.0E-48	11418831	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
5967	18749	31710	0.97	6.0E-48	AB009955.1	NT	Homo sapiens touseled-like kinase 1 (TLK1), mRNA
6888	19605	32645	1.08	6.0E-48	11420985	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
7365	25111	33123	0.68	6.0E-48	AB046844.1	NT	Homo sapiens histidyl-tRNA synthetase (HARS), mRNA
7365	25111	33124	0.98	6.0E-48	AB046844.1	NT	Homo sapiens mRNA for AIE-75, complete cds
9022	21712	34868	2.07	6.0E-48	AF026816.1	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX), mRNA
9441	22119	35296	1.74	6.0E-48	11427428	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
9588	22241	35425	3.2	6.0E-48	AA189080.1	EST_HUMAN	Homo sapiens putative oncogene protein mRNA, partial cds
3304	17876	28713	1.94	5.0E-48	4826891	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
8474	21166	34310	1.25	5.0E-48	BE094410.1	EST_HUMAN	zq45206.s1 Stragene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to contains Alu repetitive element
11603	24202	37524	1.39	5.0E-48	AW890299.1	EST_HUMAN	Homo sapiens phosphodiesterase 1A, calmodulin-dependent (PDE1A) mRNA
10878	23558	36805	3.96	4.0E-48	AI620420.1	EST_HUMAN	RC4-BT0311-141189-011-06 BT0311 Homo sapiens cDNA
1364	14112	26786	1.27	3.0E-48	AV690964.1	EST_HUMAN	MRO-NT0039-010500-002-08 NT0039 Homo sapiens cDNA
							tu47a02.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2254154 3'
							AV690964 GK Homo sapiens cDNA clone GKCDRE12 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1969	14705	27422	15.26	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
1969	14705	27423	15.26	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
3622	16375	29017	0.75	3.0E-48	AW664531.1	EST_HUMAN	h14b12.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2972255 3' similar to SW:DCRB_HUMAN
5804	18394	31519	2.47	3.0E-48	BE084571.1	EST_HUMAN	P55555 DOWN SYNDROME CRITICAL REGION PROTEIN B. ;
6819	19655	32701	0.94	3.0E-48	AF087913.1	NT	MR4-BT0657-060400-201-e10 BT0657 Homo sapiens cDNA
							Human endogenous retrovirus HERV-P-T47D
8290	20984		3.41	3.0E-48	AA659830.1	EST_HUMAN	h03f05.s1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:1219137 3' similar to contains PTR5.b1
10784	23467	36708	9.52	3.0E-48	BF514170.1	EST_HUMAN	PTR5 repetitive element ;
44	12873	25495	1.71	2.0E-48	AA631940.1	EST_HUMAN	U1H-BW1-eri-a-10-Q-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082287 3'
							fmf67 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR17-26
1197	13949		5.15	2.0E-48	H24278.1	EST_HUMAN	ym55e10.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:52182 5' similar to
							SP:M6B_MOUSE P36803 MEMBRANE GLYCOPROTEIN ;
4495	17231	29861	1.42	2.0E-48	BE246085.1	EST_HUMAN	TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project= TCBA Homo
5724	18516	31438	0.81	2.0E-48	AA613171.1	EST_HUMAN	sapiens cDNA clone TCBAAP3842
5724	18516	31437	0.61	2.0E-48	AA613171.1	EST_HUMAN	no18g01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
7419	20096	33182	4.77	2.0E-48	AB040934.1	NT	no18g01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
7419	20096	33183	4.77	2.0E-48	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
							Homo sapiens mRNA for KIAA1501 protein, partial cds
7432	20109	33197	3.35	2.0E-48	11496238	NT	Homo sapiens v-rai avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light
8253	20947	34064	1.33	2.0E-48	AV743451.1	EST_HUMAN	polypeptide gene enhancer in B-cells 3 (p65) (RELA), mRNA
12041	17888	30486	4.27	2.0E-48	AA465007.1	EST_HUMAN	AV743451 CB Homo sapiens cDNA clone CBCCGG10 5'
12367	25232	30820	1.86	2.0E-48	BE737154.1	EST_HUMAN	z80c03.r1 Soares ovary tumor NBH0T Homo sapiens cDNA clone IMAGE:810062 5'
							601305064F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639782 5'
12716	13949		1.34	2.0E-48	H24278.1	EST_HUMAN	ym55e10.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:52182 5' similar to
54	12883	25511	2.3	1.0E-48	7706534	NT	SP:M6B_MOUSE P36803 MEMBRANE GLYCOPROTEIN ;
							Homo sapiens disphatin resistance-associated overexpressed protein (LOC51747), mRNA
853	13623	26283	17.13	1.0E-48	4502198	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1273	14023	26691	3.77	1.0E-48	5032032	NT	Homo sapiens RNA binding motif protein 8 (RBM8) mRNA
1911	14648	27359	30.36	1.0E-48	AL163302.2	NT	Homo sapiens chromosome 21 segment HS21C102
3481	16238	28894	0.96	1.0E-48	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
5061	17780	30398	1.8	1.0E-48	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
6195	18971	31946	1.17	1.0E-48	A189077.1	EST_HUMAN	h17c01.x1 NCI_CGAP_C018 Homo sapiens cDNA clone IMAGE:2075904 3' similar to TR:O14598 O14598
							SIMILARITY TO U73941 ;

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6195	18971	31947	1.17	1.0E-48	AI889077.1	EST_HUMAN	Id17c01.x1 NCL_CGAP_C016 Homo sapiens cDNA clone IMAGE:2075804 3' similar to TR:O14588 O14588 SIMILARITY TO U73941;
6407	19176		0.94	1.0E-48	Y18000.1	NT	Homo sapiens NF2 gene
6500	19265	32286	0.71	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
6500	19265	32287	0.71	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
7157	19844	32913	2.52	1.0E-48	4755137	NT	Homo sapiens huntingtin (Huntington disease) (HD) mRNA
8730	21422	34568	0.76	1.0E-48	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
8730	21422	34567	0.76	1.0E-48	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
9113	21801	34968	0.84	1.0E-48	4502838	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
9168	21838	35004	6.4	1.0E-48	AB033071.1	NT	Homo sapiens mRNA for KIAA1245 protein, partial cds
9481	22134	35314	5.33	1.0E-48	BF304883.1	EST_HUMAN	60188090F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
10269	22917	36127	4.08	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65), mRNA
10269	22917	36128	4.08	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65), mRNA
2002	14737	27461	1.13	8.0E-49	AB026497.1	NT	Mus musculus MyoPDZ mRNA for myosin containing PDZ domain, complete cds
5902	18744	31704	3.43	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
5902	18744	31705	3.43	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
8194	20868	34026	3.17	8.0E-49	U23850.1	NT	Human inositol 1,4,5 trisphosphate receptor type 1 mRNA, partial cds
9889	22539	35733	1.15	8.0E-49	AB008681.1	NT	Homo sapiens gene for actinin receptor type IIB, complete cds
135	13171	25814	1	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
135	13171	25815	1	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
384	13171	25814	1.73	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
384	13171	25815	1.73	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
385	13171	25814	2.94	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
385	13171	25815	2.94	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
1199	13951	28015	3.4	7.0E-49	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5373	18173	30862	2.11	7.0E-49	AI807191.1	EST_HUMAN	wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:O54923
5363	18183	30873	1.46	7.0E-49	AL120937.1	EST_HUMAN	O54923 RSEC15.;
5716	18173	30862	0.67	7.0E-49	AI807191.1	EST_HUMAN	DKFZp762C033_s1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762C033 3'
							wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:O54923
192	13005	25648	12.12	6.0E-49	AW731740.1	EST_HUMAN	O54923 RSEC15.;
4095	19837	29464	1.27	6.0E-49	AL162091.1	EST_HUMAN	be55g05.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800504 3' similar to gb:X17206 40S RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
							DKFZp761A138_s1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A138 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6349	19118	32109	0.94	6.0E-49	AU140742.1	EST_HUMAN	AU140742 PLACE4 Homo sapiens cDNA clone PLACE400148 5'
7314	19997	33078	0.69	6.0E-49	AW511225.1	EST_HUMAN	hd44e02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:095636
9633	22285	35478	0.45	6.0E-49	9910293	NT	095636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II ;
9633	22285	35479	0.45	6.0E-49	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11248	23910	37202	2.6	6.0E-49	AW462218.1	EST_HUMAN	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11661	24257	37579	2.6	6.0E-49	AA386556.1	EST_HUMAN	UI-H-B13-alo-a-05-Q-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068048 3'
11661	24257	37580	2.6	6.0E-49	AA386556.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
12382	25151		2.03	6.0E-49	AA707567.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
695	13470	26117	7	5.0E-49	AL163210.2	NT	z129c08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:451694 3'
695	13470	26118	7	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
						NT	Homo sapiens chromosome 21 segment HS21C010
1786	14527	27235	3.49	5.0E-49	AA172121.1	EST_HUMAN	zp29cd07.r1 Stratogene neuroepithelium (#637231) Homo sapiens cDNA clone IMAGE:610860 5' similar to
2754	15459	28201	4.25	5.0E-49	U17114.1	NT	TR:Q233228 Q233228 RTVL-H PROTEIN ; contains LTR7.13 LTR7 LTR7 repetitive element ;
						NT	Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds
3267	18028	28678	2.04	5.0E-49	11436355	NT	Homo sapiens similar to ribosomal protein S27 (metalloproteinin 1) (H. sapiens) (LOC63382), mRNA
512	13296	25927	47.84	4.0E-49	AW189533.1	EST_HUMAN	x08b01.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2675593 3' similar to WP.B0350.2B
						EST_HUMAN	CE06703 ;
7172	19858	32930	0.95	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyl-galactosaminyltransferase 8
						NT	(GalNAc-T8) (GALNT8), mRNA
7172	19858	32931	0.95	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyl-galactosaminyltransferase 8
7710	20374	33488	0.9	4.0E-49	7662209	NT	(GalNAc-T8) (GALNT8), mRNA
8763	21455	34604	0.47	4.0E-49	11425374	NT	Homo sapiens KIAA0823 gene product (KIAA0823), mRNA
8763	21455	34605	0.47	4.0E-49	11425374	NT	Homo sapiens copine III (CPNE3), mRNA
12221	25368		4.21	4.0E-49	AA210798.1	EST_HUMAN	Homo sapiens copine III (CPNE3), mRNA
						EST_HUMAN	z180705.r1 NCI_CGAP_G0B1 Homo sapiens cDNA clone IMAGE:882977 5'
12306	24730		4.1	4.0E-49	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
547	13330	25961	1.73	3.0E-49	X68508.1	NT	genes, complete cds
						NT	H. sapiens mRNA for acetyl-CoA carboxylase
2654	15364		1.9	3.0E-49	AA016131.1	EST_HUMAN	z631c05.r1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:360594 5' similar to contains L1.13 L1
4923	17651	30264	2.33	3.0E-49	U46999.1	NT	repetitive element ;
7319	20002	33081	11.87	3.0E-49	H39479.1	EST_HUMAN	Human type IV collagen (COL4A6) gene, exon 40
						EST_HUMAN	EST25e12 WATM1 Homo sapiens cDNA clone 25e12

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11272	23933	37226	1.98	3.0E-49	AA337561.1	EST_HUMAN	EST42572 Endometrial tumor Homo sapiens cDNA 6' end
646	13425		2.94	2.0E-49	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
3216	15979	28630	1.64	2.0E-49	N26446.1	EST_HUMAN	y23406.r1 Soares melanocyte 2N8HM Homo sapiens cDNA clone IMAGE:282571 5'
4748	17478	30110	0.88	2.0E-49	AI167357.1	EST_HUMAN	cc88d02.x1 Soares_aerosecent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1682403 3' similar to gb:M31470 RAS-LIKE PROTEIN TC10 (HUMAN); contains Alu repetitive element; contains element MER22 repetitive element;
4758	17480	30118	0.74	2.0E-49	BF511846.1	EST_HUMAN	UH4B14-aps-4-02-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3088638 3'
6637	19399	32414	1.17	2.0E-49	AV717938.1	EST_HUMAN	AV717938 DCB Homo sapiens cDNA clone DGBALB01 5'
7998	20893		1.74	2.0E-49	M88033.1	EST_HUMAN	EST02558 Fetal brain, <i>Stratagene (cat#036208)</i> Homo sapiens cDNA clone HFBCY50
12316	25250		2.07	2.0E-49	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
879	13848		5	1.0E-49	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
1546	14282	26978	1.11	1.0E-49	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1794	14534	27243	4.82	1.0E-49	BE25216.1	EST_HUMAN	601115769F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3355273 5'
5275	18080	30737	6.82	1.0E-49	BF131007.1	EST_HUMAN	601820053F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4052052 5'
5986	18767	31731	0.88	1.0E-49	H18291.1	EST_HUMAN	y148f04.r1 Soares adult brain N2b5fH855Y Homo sapiens cDNA clone IMAGE:171703 5' similar to SP:GBG1_HUMAN Q0847 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT;
5992	18773	31736	5.55	1.0E-49	AW864640.1	EST_HUMAN	EST376713 MAGC sequences, MAGH Homo sapiens cDNA
7117	19806	32869	0.82	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCV11 5'
7117	19805	32870	0.92	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCV11 5'
7123	19811	32878	3.55	1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7123	19811	32879	3.55	1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7200	19886	32960	2.21	1.0E-49	N25884.1	EST_HUMAN	yw78g12.s1 Soares_placenta_8to9weeks_2N8HP8to9W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7200	19886	32961	2.21	1.0E-49	N25884.1	EST_HUMAN	yw78g12.s1 Soares_placenta_8to9weeks_2N8HP8to9W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7977	20872	33795	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
7977	20872	33796	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
8575	21267		0.66	1.0E-49	9994184	NT	Homo sapiens RNA binding motif protein 7 (LOC51120), mRNA
8891	21582	34721	1.29	1.0E-49	BE406340.1	EST_HUMAN	601300992F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636398 5'
10026	22874	35889	1.58	1.0E-49	AL043128.2	EST_HUMAN	DKFZp434D2423_r1 434 (synonym: h1653) Homo sapiens cDNA clone DKFZp434D2423 5'
10979	23654	36907	1.43	1.0E-49	AV751477.1	EST_HUMAN	AV751477 NPD Homo sapiens cDNA clone NPDAWE04 5'
11281	23942	37236	3.32	1.0E-49	11427366	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12215	24677		2.46	1.0E-49	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
4937	17685		1.4	9.0E-50	AF101475.1	NT	Homo sapiens glycine N-methyltransferase (GNMT) gene, complete cds

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6310	25421		0.95	9.0E-50	BE285788.1	EST_HUMAN	601176250F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531588 5'
168	12880	25619	4.05	8.0E-50	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
702	13477	26125	2.54	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
702	13477	26126	2.54	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
1768	14500	27201	2.82	8.0E-50	4501890	NT	Homo sapiens actinin, alpha 1 (ACTN1) mRNA
2703	15410	28147	1.48	8.0E-50	4828858	NT	Homo sapiens capping protein (actin filament) muscle Z-line, beta (CAPZB), mRNA
2833	14691		15.7	8.0E-50	D90334.1	NT	Homo sapiens hepatocyte growth factor (HGF) gene, exon 18
11385	23992	37293	1.29	8.0E-50	AA633487.1	EST_HUMAN	GLUTATHIONE S-TRANSFERASE TESTIS/BRIN (HUMAN);
805	13383	29015	0.76	7.0E-50	BE089591.1	EST_HUMAN	QV0-BT0703-280400-211-e08 BT0703 Homo sapiens cDNA
6887	19604	32643	1.06	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
6887	19604	32644	1.06	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
7205	19890	32668	0.6	7.0E-50	AA627822.1	EST_HUMAN	nt59e12.s1 NCI_CGAP_C08 Homo sapiens cDNA clone IMAGE:1148206 3' similar to gb:X69391.60S
10656	23347	36584	7.65	7.0E-50	A1872137.1	EST_HUMAN	RIBOSOMAL PROTEIN L6 (HUMAN);
4309	17048		0.68	6.0E-50	BE794381.1	EST_HUMAN	wm55g11.x1 NCI_CGAP_U2 Homo sapiens cDNA clone IMAGE:2439908 3'
8112	20806		5.67	6.0E-50	BE044076.1	EST_HUMAN	601589585F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
10717	23406	36646	12.6	6.0E-50	AA312079.1	EST_HUMAN	hcs36h04.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29.b3
10717	23406	36647	12.6	6.0E-50	AA312079.1	EST_HUMAN	MER29 repetitive element;
1785	14526	27233	1.1	5.0E-50	BF332938.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
1785	14526	27234	1.1	5.0E-50	BF332938.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
8960	21680		5.26	5.0E-50	AA557683.1	EST_HUMAN	CM0-BT0792-300500-398-b05 BT0792 Homo sapiens cDNA
897	13665		1.71	4.0E-50	AA801143.1	EST_HUMAN	CM0-BT0792-300500-398-b05 BT0792 Homo sapiens cDNA
3441	16197	28847	0.99	4.0E-50	AL163248.2	NT	nt45h10.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043683 similar to contains PTR5.63 PTR5
6288	19041	32018	0.98	4.0E-50	11440683	NT	repetitive element;
7135	19822	32888	1.95	4.0E-50	BE087536.1	EST_HUMAN	no54e09.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X53741_ma1
1931	14667		4.13	3.0E-50	M18048.1	NT	FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
3293	16064	28703	1.24	3.0E-50	AA746142.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C048
3734	16487	29124	1.14	3.0E-50	AW755254.1	EST_HUMAN	Homo sapiens cysteinyl-tRNA synthetase (CARS), mRNA
							Homo sapiens endogenous retrovirus RTVL-H2
							QV1-BT0681-280300-127-f12 BT0681 Homo sapiens cDNA
							Human endogenous retrovirus RTVL-H2
							cd03f06.s1 NCI_CGAP_Kd3 Homo sapiens cDNA clone IMAGE:1322627 3'
							CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5
							Cardiomyopathy associated gene 5

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6867	19584	32918	1.52	3.0E-50	11421514	NT	Homo sapiens similar to serpin domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
7544	20214	33314	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
7544	20214	33315	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
8481	21173	34318	0.71	3.0E-50	6601589	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
9718	22369	35567	1.21	3.0E-50	AB046818.1	NT	Homo sapiens mRNA for KIAA1598 protein, partial cds
9727	22378	35380	0.99	3.0E-50	11418514	NT	Homo sapiens t-complex 10 (a murine top homolog) (TCP10), mRNA
10077	22725	35942	0.47	3.0E-50	Y18276.1	NT	Mus musculus mRNA for neurobeachin
10415	23061	36280	1.03	3.0E-50	AB007297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11045	23715	36984	1.61	3.0E-50	11436955	NT	Homo sapiens Grib2-associated binder 2 (KIAA0571), mRNA
11441	23208	38439	5.35	3.0E-50	AJ245921.1	NT	Homo sapiens CTL2 gene
760	13532		5.38	2.0E-50	AF055096.1	NT	Homo sapiens MHC class I region
1057	13815	28476	5.57	2.0E-50	4557752	NT	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1) mRNA
1424	14171	26857	2.25	2.0E-60	AF138303.1	NT	Homo sapiens decorin D mRNA, complete cds, alternatively spliced
6789	19513	32539	0.59	2.0E-50	AU124065.1	EST_HUMAN	AU124065 NT2RM2 Homo sapiens cDNA clone NT2RM2001609 5'
8215	20909	34044	1.02	2.0E-50	AB038182.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8215	20909	34045	1.02	2.0E-50	AB038182.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8365	21048	34186	10.04	2.0E-60	X06956.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
8355	21048	34187	10.04	2.0E-50	X06956.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
9784	22435	35641	1.51	2.0E-50	6910293	NT	Mus musculus keratin complex 2, gene 8g (Krt2-8g), mRNA
9784	22435	35642	1.51	2.0E-60	6910293	NT	Mus musculus keratin complex 2, gene 8g (Krt2-8g), mRNA
11690	24258		1.8	2.0E-50	AF023861.1	NT	Meacaca mulatta cyclophilin A mRNA, complete cds
449	13235	25874	1.92	1.0E-50	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2395	15087		9.48	1.0E-60	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
10093	22741	35858	1.57	1.0E-50	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
5893	19678	31624	1.21	9.0E-51	AW511225.1	EST_HUMAN	hd44602.x1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O95636
6130	19908	31876	0.71	9.0E-51	AA744837.1	EST_HUMAN	O95636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II ;
8572	21264	34403	0.65	9.0E-51	A1791154.1	EST_HUMAN	my67h03.s1 NCI_CGAP_G081 Homo sapiens cDNA clone IMAGE:1283381 3'
9224	21803	35075	1.23	9.0E-51	AA043738.1	EST_HUMAN	ab23g04.x5 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:841688 3' similar to SW:PSM_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
							zks51c09.t1 Soares_pregnant_uterus_NBIPU Homo sapiens cDNA clone IMAGE:486352 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9400	22082	35231	0.86	9.0E-51	AI791154.1	EST_HUMAN	ab23g04.x5 Stratiogene lung (#637210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM_HUMAN_Q04808 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
9400	22082	35232	0.86	9.0E-51	AI791154.1	EST_HUMAN	ab23g04.x5 Stratiogene lung (#637210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM_HUMAN_Q04809 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
11455	23222	36456	1.89	8.0E-51	H89078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:283210 5'
11455	23222	36457	1.89	9.0E-51	H89078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:283210 5'
11823	18008	31878	1.43	9.0E-51	AA744837.1	EST_HUMAN	ny67h03.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1283381 3'
4405	17142	29770	1.45	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4405	17142	29771	1.45	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4530	17285	29898	8.43	8.0E-51	AA610842.1	EST_HUMAN	np88e08.s1 NCI_CGAP_Lu1 Homo sapiens cDNA clone IMAGE:1142440 3' similar to gb:U12671_maf1
7552	20222	33325	2.24	8.0E-51	11439587	NT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
9384	21939		1.13	8.0E-51	AU138590.1	EST_HUMAN	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
11812	20222	33325	2.02	8.0E-51	11439587	NT	AU138590 PLACE1 Homo sapiens cDNA clone IMAGE:1008887 5'
							Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
3015	15781	28430	0.9	7.0E-51	AW274720.1	EST_HUMAN	xn34e03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2695594 3' similar to TR:Q9Z340
3278	16037	28687	1.45	7.0E-51	AW889219.1	EST_HUMAN	Q9Z340 A TYPICAL PKC SPECIFIC BINDING PROTEIN ;
4146	18888	29518	1.37	7.0E-51	AL079828.1	EST_HUMAN	QV4-NT0028-200400-180-405 NT0028 Homo sapiens cDNA
4146	18888	29520	1.37	7.0E-51	AL079828.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5'
4318	17057	29681	2.71	7.0E-51	AW296603.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5'
11886	24281	37603	1.34	7.0E-51	AF161449.1	NT	UI-H-BW0-4lp-b-05-0-U1s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729817 3'
							Homo sapiens HSPC331 mRNA, partial cds
1972	14708	27426	4.98	6.0E-51	7657286	NT	Homo sapiens KIAA0928 protein Mso2 interacting nuclear target (MINT) homolog (KIAA0928), mRNA
3486	16222	28876	14.73	6.0E-51	7657286	NT	Homo sapiens KIAA0928 protein Mso2 interacting nuclear target (MINT) homolog (KIAA0928), mRNA
5901	18886	31634	1.56	6.0E-51	X01788.1	NT	Human hemoglobin related (Hpr) gene exon 3
5912	18890	31648	9.85	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
5912	18890	31649	9.85	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6963	19580	32615	1.02	6.0E-51	4506736	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (RPS36(B1)) mRNA
6792	19538	32584	0.97	6.0E-51	11416751	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6K(B1)) mRNA
6968	17845	30540	2.2	6.0E-51	11428625	NT	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC66990), mRNA
9035	21725	34878	0.88	6.0E-51	11428625	NT	Homo sapiens cerebral cell adhesion molecule (LOC51148), mRNA
9035	21725	34879	0.88	6.0E-51	11428625	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
9582	22235	35419	2.18	6.0E-51	7661335	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9662	22314	35511	0.87	6.0E-51	U50093.1	NT	Human ankyrin (ANK1) gene, exon 2
11221	23884	37169	1.51	6.0E-51	11526289	NT	Homo sapiens interleukin 17 receptor (IL17R), mRNA
11515	24115	37425	1.52	6.0E-51	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B58), alpha isoform (PPP2R5A) mRNA
11515	24115	37428	1.52	6.0E-51	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B58), alpha isoform (PPP2R5A) mRNA
774	13546	26207	1.81	5.0E-51	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
785	13557	26219	1.86	5.0E-51	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
970	15557	26400	0.95	5.0E-51	AL133204.1	NT	Novel human gene mapping to chromosome X
1803	14349	27038	0.99	5.0E-51	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2001	16315	28052	8.67	5.0E-51	AJ007558.1	NT	Homo sapiens mRNA for nucleoporin 155
3925	16675	29316	1.52	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
3926	16675	29317	1.52	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
11249	23911	37203	4.18	5.0E-51	5803136	NT	Homo sapiens RNA binding motif protein 3 (RBM3), mRNA
1163	13908	26571	3.65	3.0E-51	A1587348.1	EST_HUMAN	tr81c09.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M26326
4292	17031	29659	1.97	3.0E-51	AL159142.1	NT	KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN); Novel human gene mapping to chromosome 22
7479	20152	33246	3	3.0E-51	R15914.1	EST_HUMAN	ye47c08.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:53233 5' similar to gb:M14123_cd44
8738	21430		4.66	3.0E-51	M29063.1	NT	RETROVIRUS-RELATED POLYPROTEIN (HUMAN); contains LTR5 repetitive element;
8966	25430		0.47	3.0E-51	AW583777.1	EST_HUMAN	Human hnRNP C2 protein mRNA
357	13155	25796	2.01	2.0E-51	4507798	NT	le04d06.y1 Human Pancreatic Islets Homo sapiens cDNA 5' Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
1683	14427	27124	5.16	2.0E-51	AA233352.1	EST_HUMAN	z30ia05.r1 Striatogene NT2 neuronal precursor 837230 Homo sapiens cDNA clone IMAGE:884880 5' similar to TR:G233226 G233226 RTVL-H PROTEIN; contains LTR7 (3 LTR7 repetitive element);
3716	16469	28107	1.57	2.0E-51	AI492415.1	EST_HUMAN	h27g03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2131732 3'
4458	17194	29820	0.76	2.0E-51	AW137826.1	EST_HUMAN	UI-H-B11-edj-d-02-0-J1.x1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2716851 3'
5352	18155	30837	0.7	2.0E-51	AI732851.1	EST_HUMAN	cd34f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325009 3' similar to SW:NME1_MOUSE
5352	18155	30838	0.7	2.0E-51	AI732851.1	EST_HUMAN	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR;
5925	18709	31663	3.66	2.0E-51	BE782015.1	EST_HUMAN	cd34f09.x6 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325009 3' similar to SW:NME1_MOUSE
7209	19894		0.61	2.0E-51	AF219927.1	NT	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR; 601470446F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873563 5' Homo sapiens diacylglycerol kinase beta (DGK1) gene, exon 23

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7357	20038	33116	1.08	2.0E-51	7662349	NT	Homo sapiens cell recognition molecule Casp2 (KIA00868), mRNA
8599	21291	34432	1.72	2.0E-51	BE601994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
8599	21291	34433	1.72	2.0E-51	BE601994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
8632	21623	34766	0.96	2.0E-51	11037084	NT	Homo sapiens disrupted in schizophrenia 1 (DISC1), mRNA
9412	22090	35281	1.45	2.0E-51	A1917078.1	EST_HUMAN	ts74a07.x1 NC1_CGAP_G08 Homo sapiens cDNA clone IMAGE:2238880 3' similar to SW:TRKC_HUMAN
9503	22156	35336	5.68	2.0E-51	BE165980.1	EST_HUMAN	Q16288 NT-3 GROWTH FACTOR RECEPTOR PRECURSOR ;
9519	22172	35355	0.6	2.0E-51	AB007926.1	NT	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
10332	22979	36199	1.77	2.0E-51	AV682474.1	EST_HUMAN	Homo sapiens mRNA for KIAA0457 protein, partial cds
10370	23016	36232	2.67	2.0E-51	AA378559.1	EST_HUMAN	AV682474 GKB Homo sapiens cDNA clone GKBAGF05 5'
11288	18155	30837	8.52	2.0E-51	A1732851.1	EST_HUMAN	EST191298 Synovial sarcoma Homo sapiens cDNA 5' end
11298	18155	30838	8.52	2.0E-51	A1732851.1	EST_HUMAN	cd34409.x5 NC1_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
12523	24870	31017	2.1	2.0E-51	11419159	NT	P35438 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
112	12934	25571	5.74	1.0E-51	4503528	NT	cd34409.x5 NC1_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
1478	14226		20.32	1.0E-51	AV742248.1	EST_HUMAN	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
4959	17684	30294	1.52	1.0E-51	BE779039.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog), translocated to, 4 (MLLT4), mRNA
5305	18110	30769	4.1	1.0E-51	T18882.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA
7549	20219	33322	0.94	1.0E-51	AI572532.1	EST_HUMAN	AV742248 CB Homo sapiens cDNA clone CBFBG12 5'
7803	20498	33619	0.81	1.0E-51	BF434359.1	EST_HUMAN	601484965F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3868246 5'
11783	25434		2	1.0E-51	AV780590.1	EST_HUMAN	b12056t Testis 1 Homo sapiens cDNA clone b12056
10587	23282	36520	1.39	9.0E-52	R91638.1	EST_HUMAN	ts39g02.x1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:2089106 3'
10687	23282	36521	1.39	9.0E-52	R91638.1	EST_HUMAN	7c686502.x1 NC1_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3644091 3' similar to TR:P87892 P87892
12301	24726		5.36	9.0E-52	AA777621.1	EST_HUMAN	PROTEASE ;
148	12993	25605	9.99	8.0E-52	AA720574.1	EST_HUMAN	AV780590 MDS Homo sapiens cDNA clone MDSOBB02 5'
1482	14229	26915	1.65	8.0E-52	X84900.1	NT	Y110104.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196567 5' similar to
							SP:YGAF_ECOLI_P37339 HYPOTHETICAL PROTEIN IN GABP 3 REGION ;
							Y110104.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196567 5' similar to
							SP:YGAF_ECOLI_P37339 HYPOTHETICAL PROTEIN IN GABP 3 REGION ;
							285a07.s1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to
							contains THR.13 THR repetitive element ;
							tw21g02.s1 NC1_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.13
							THR repetitive element ;
							H. sapiens mRNA for ferritin-5, alpha3b chain

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1650	14398	27085	3.13	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13558 similar to N-myc downstream regulated 3 (FLJ13558), mRNA
1650	14398	27086	3.13	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13558 similar to N-myc downstream regulated 3 (FLJ13558), mRNA
3976	14398	27085	6.6	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13558 similar to N-myc downstream regulated 3 (FLJ13558), mRNA
3976	14398	27086	6.6	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13558 similar to N-myc downstream regulated 3 (FLJ13558), mRNA
7417	20094	33178	0.67	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
7417	20094	33179	0.67	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
8911	21602	34745	2.04	7.0E-52	W56471.1	EST_HUMAN	z559d06.r1 Soares_perituboid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:326578 5' similar to contains Alu repetitive element;
1164	13918		0.76	6.0E-52	BE072409.1	EST_HUMAN	QV3-BT0537-271209-049-007 BT0537 Homo sapiens cDNA
1689	14433	27129	4.27	6.0E-52	AF108907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
5641	18436	31349	0.86	6.0E-52	AI208704.1	EST_HUMAN	cg44f04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838047 3'
11170	23837	37119	1.84	6.0E-52	BE048172.1	EST_HUMAN	tz46h04.y1 NCI_CGAP_Bn52 Homo sapiens cDNA clone IMAGE:2291671 5' similar to SW:PGBM_MOUSE Q05793 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE
9292	21959	35132	0.6	6.0E-52	11437365	NT	PROTEOGLYCAN CORE PROTEIN PRECURSOR ; Homo sapiens FSHD region gene 1 (FRG1), mRNA
1723	14468	27165	1.32	4.0E-52	4501922	NT	Homo sapiens adenylate cyclase activating polypeptide 1 (pituitary) receptor type 1 (ADCYAP1R1) mRNA
1780	14521	27225	1.02	4.0E-52	4758843	NT	Homo sapiens nucleoporin 155kD (NUP155) mRNA
3908	18658	29287	0.99	4.0E-52	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5204	18012	30633	1.33	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
5204	18012	30634	1.33	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
7938	20633	33760	1.74	4.0E-52	BE622032.1	EST_HUMAN	60144087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3915836 5'
8432	21125	34263	5.48	4.0E-52	11417035	NT	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4), mRNA
12143	24631		5.11	4.0E-52	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12627	24930		5.23	4.0E-52	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4071	18815		10.57	3.0E-52	11437042	NT	Homo sapiens hypothetical protein FLJ10675 (FLJ10675), mRNA
549	13332	25962	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
549	13332	25963	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2503	15220	27963	2.04	2.0E-52	BE207575.1	EST_HUMAN	b68607.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030421 5' similar to gb:X16483 M.musculus
2740	15448		6.03	2.0E-52	BF677892.1	EST_HUMAN	mRNA for Zfp-1 zinc finger protein (MOUSE);
4020	17648	30280	2.13	2.0E-52	AL137188.3	NT	602084710F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248881 5'
4952	17678	30287	1.29	2.0E-52	A1141802.1	EST_HUMAN	Novel human gene mapping to chromosome 20, similar to membrane transporters
4952	17678	30288	1.29	2.0E-52	A1141802.1	EST_HUMAN	qa56e05.s1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
5617	18413	31328	4.11	2.0E-52	AW848041.1	EST_HUMAN	qa56e05.s1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
6274	19047	32024	1.98	2.0E-52	11141888	NT	IL3-CT0214-231289-053-E12 CT0214 Homo sapiens cDNA
6613	19376	32390	0.99	2.0E-52	AB029004.1	NT	Homo sapiens Interleukin 21 receptor (IL21R), mRNA
6843	19643	32571	1.17	2.0E-52	A1792146.1	EST_HUMAN	Homo sapiens mRNA for KIAA1081 protein, partial cds
8551	21243		9.03	2.0E-52	AF147880.1	NT	os45d12.y5 NCJ_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1608311 5'
8834	21526	34672	0.81	2.0E-52	AA778795.1	EST_HUMAN	Macaca mulatta beta-tubulin mRNA, complete cds
9379	21954		0.88	2.0E-52	4758789	NT	z45g05.s1 Soares_fetal_liver_spleen_1NFSL_S1 Homo sapiens cDNA clone IMAGE:453272 3'
10015	22663	35879	5.53	2.0E-52	5730038	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFS5) mRNA
10016	22663	35880	5.53	2.0E-52	5730038	NT	Homo sapiens SET domain and maf-like transposase fusion gene (SETMAR) mRNA
11165	23832	37111	3.15	2.0E-52	A1831462.1	EST_HUMAN	Homo sapiens SET domain and maf-like transposase fusion gene (SETMAR) mRNA
11165	23832	37112	3.15	2.0E-52	A1831462.1	EST_HUMAN	wf49c04.x1 NCJ_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2
11178	23845	37131	3.09	2.0E-52	AV715377	EST_HUMAN	THR repetitive element;
11325	24016		1.72	2.0E-52	W70280.1	EST_HUMAN	AV715377 DGB Homo sapiens cDNA clone DGBAIE03 5'
11818	24215		2.76	2.0E-52	11417930	NT	z44g12.r1 Soares_fetal_heart_NBHH19W Homo sapiens cDNA clone IMAGE:344038 5'
11961	25408	30601	24.38	2.0E-52	AW236297.1	EST_HUMAN	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA
12350	24756		4.49	2.0E-52	A1808985.1	EST_HUMAN	xn72e07.x1 NCJ_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2700036 3' similar to contains ALU
520	13304	25937	1.96	1.0E-52	AA634445.1	EST_HUMAN	repetitive element; contains element L TR2 repetitive element;
1350	14098	26773	37.84	1.0E-52	4504026	NT	wf67d05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360649 3' similar to TR:Q16859
2537	15252		0.9	1.0E-52	4502238	NT	Q16859 CARBOXYL-ESTERASE;
3055	15821	28485	2.87	1.0E-52	S61070.1	NT	z475h12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743879 3'
5250	18056	30684	4.35	1.0E-52	M29426.1	NT	Homo sapiens glutamate-aminoligase (glutamine synthase) (GLUL) mRNA
6300	19073	32059	2.51	1.0E-52	U38964.1	NT	Homo sapiens arylsulfatase D (ARSD), transcript variant 1, mRNA
							pol=reverse transcriptase homolog (retroviral element) [human, endogenous retroviral element RTVL-Hp1,
							Genomic, 680 nt]
							Human P-glycoprotein (MDR1) gene, exon 4
							Human PMS2 related (hPMSR2) gene, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7330	20012	33080	5.31	1.0E-52	X07292.1	NT	Human aldolase C gene for fructose-1,6-bisphosphate aldolase
8364	21057		1.2	1.0E-52	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
9087	21776	34940	0.75	1.0E-52	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10478	23122		1.03	1.0E-52	AW020370.1	EST_HUMAN	df08g06.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483145 5'
10486	23132		1.39	1.0E-52	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
10665	23356	36506	1.61	1.0E-52	U48296.1	NT	Homo sapiens protein tyrosine phosphatase PTPCAAX1 (hPTPCAAX1) mRNA, complete cds
10740	23427		2.09	1.0E-52	11426321	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 2 (PSMB2), mRNA
3771	18523	29161	1.05	9.0E-53	4506064	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) mRNA
4359	17097	29732	1.96	9.0E-53	AF001446.1	NT	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3
12189	24660		3.18	7.0E-53	BF238465.1	EST_HUMAN	601804771F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4132793 5'
12600	25285		4.92	7.0E-53	AI421782.1	EST_HUMAN	164107.x1 NCI_CGAP_Bim23 Homo sapiens cDNA clone IMAGE:2099077 3' similar to contains T1-R.11 THR repetitive element;
5086	17805	30422	1.02	6.0E-53	BE295719.1	EST_HUMAN	601175776F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3530948 5'
4078	16822	29448	2.28	5.0E-53	4758543	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein C (G1/C2) (HNRPC) mRNA
12236	24688		1.58	5.0E-53	AW813563.1	EST_HUMAN	RC3-ST0197-151099-011-g10 ST0197 Homo sapiens cDNA
48	12877	25602	2.78	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
48	12877	25503	2.76	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
4771	17503	30125	1.03	4.0E-53	7705414	NT	Homo sapiens hook1 protein (HOOK1), mRNA
9316	21983		0.66	4.0E-53	AI613037.1	EST_HUMAN	Y06804.x1 NCI_CGAP_U3 Homo sapiens cDNA clone IMAGE:2278327 3'
9856	22308		0.67	4.0E-53	F13080.1	EST_HUMAN	HSC3ID041 normalized infant brain cDNA Homo sapiens cDNA clone c-3id04
11175	23842	37126	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
11175	23842	37127	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
2865	15375	28114	1.77	3.0E-53	AB026996.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4549	17284	29914	0.74	3.0E-53	AW803563.1	EST_HUMAN	IL2-UM0081-240300-065-D03 UM0081 Homo sapiens cDNA
5339	18142	30803	0.7	3.0E-53	AF001212.1	NT	Homo sapiens 26S proteasome subunit 9 mRNA, complete cds
5536	18336	31243	0.82	3.0E-53	11526297	NT	Homo sapiens MIL1 protein (MIL1), mRNA
6101	18879	31846	0.85	3.0E-53	BE160025.1	EST_HUMAN	QV1-HT0412-280300-123-c04 HT0412 Homo sapiens cDNA
6998	19690	32740	1.04	3.0E-53	Y10388.3	NT	H. sapiens graf gene
6998	19690	32741	1.04	3.0E-53	Y10388.3	NT	H. sapiens graf gene
8203	20897	34034	12.52	3.0E-53	S72043.1	NT	GIF-growth inhibitory factor [human, brain, Genomic, 2015 nt]
8758	21450	34597	0.65	3.0E-53	10835090	NT	Homo sapiens bone morphogenetic protein 5 (BMP-5), mRNA
8955	21046		8.41	3.0E-53	5901853	NT	Homo sapiens FGFR1 oncogene partner (FOP), mRNA
11826	24410	37746	2.79	3.0E-53	8923599	NT	Homo sapiens hypothetical protein FLJ20644 (FLJ20644), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
445	13231		5.82	2.0E-63	AA386556.1	EST_HUMAN	EST177525 Pancreas tumor III Homo sapiens cDNA 5' end
2327	15052	27788	2.79	2.0E-63	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2538	15253		8.73	2.0E-63	4502316	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) 31kD; Vacuolar proton-ATPase, subunit E; V-ATPase, subunit E (ATP8E), mRNA
2729	15438	28172	1.46	2.0E-63	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
2729	15438	28173	1.46	2.0E-63	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
3239	16001	28651	3.72	2.0E-63	AF083822.1	NT	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 6
4036	16781	29411	2.63	2.0E-63	M61873.1	NT	Human Kruippel-related DNA-binding protein (TF34) gene, partial cds
5340	18143	30804	2.67	2.0E-63	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA
5340	18143	30805	2.67	2.0E-63	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA
7770	20468	33590	1	2.0E-63	AW976598.1	EST_HUMAN	EST367707 MAGE resequences, MAGN Homo sapiens cDNA
9308	21975		3.82	2.0E-63	AW245676.1	EST_HUMAN	2822665.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822665 5'
1428	14173	26860	1.51	1.0E-63	AJ271738.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
3404	16162	28813	1.08	1.0E-63	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
6583	19366	32370	1.52	1.0E-63	BF364201.1	EST_HUMAN	CM4-NN1028-150800-543-e02 NN1028 Homo sapiens cDNA
7147	19834	32903	0.68	1.0E-63	BE012071.1	EST_HUMAN	RC5-BN1058-270400-031-D01 BN1058 Homo sapiens cDNA
7836	20531	33658	0.54	1.0E-63	AA249072.1	EST_HUMAN	ll6571.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
8957	21677	34826	5.91	1.0E-63	X79536.1	NT	H.sapiens mRNA for hnRNP core protein A1
11833	24417	37757	1.41	1.0E-63	X88411.1	NT	H.sapiens mRNA for myosin-II
11833	24417	37758	1.41	1.0E-63	X88411.1	NT	H.sapiens mRNA for myosin-II
11955	24507	37255	2.29	1.0E-63	AW245422.1	EST_HUMAN	2822943.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822943 3'
5219	25063	30651	6.18	9.0E-64	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
202	13016	26855	2.4	8.0E-64	BE388785.1	EST_HUMAN	601272863F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3814031 5'
1827	14566	27278	1.77	8.0E-64	4504610	NT	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA
5845	18633	31588	26.87	8.0E-64	6005700	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
375	13200	25845	1.27	7.0E-64	AA812537.1	EST_HUMAN	ai79c12.s1 Soares_testis_NHT Homo sapiens cDNA clone 1377046 3' similar to contains MER30.t3 MER30 repetitive element;
1822	14561	27273	1.65	7.0E-64	Y16845.1	NT	Homo sapiens mRNA for monocyte chemoattractant protein-2
2202	14930	27867	6.38	7.0E-64	N27177.1	EST_HUMAN	yw8d12.s1 Soares_placenta_8tc6weeks_2NtHP6tc6W Homo sapiens cDNA clone IMAGE:257399 3' similar to contains LTR7.b3 LTR7 repetitive element;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal:	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10028	23676	35892	2.08	7.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA
11047	23717	36986	1.74	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11047	23717	36987	1.74	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11261	23923		4.35	7.0E-54	AI160189.1	EST_HUMAN	qb67g03.x1 Soares_fetal_NbHH19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains ORF.11 OFR repetitive element;
11811	24400	37736	1.49	7.0E-54	AF1111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11811	24400	37737	1.49	7.0E-54	AF1111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
22	12850	26465	1.41	6.0E-54	AB003618.1	NT	Homo sapiens DNA for MICB, exon 4, 5 and partial cds
376	13201	25846	6.83	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
376	13201	25847	6.83	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3271	16038	28688	0.77	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3688	16734	29368	1.81	6.0E-54	4502872	NT	Homo sapiens chloride channel 6 (CLCN6) mRNA
4429	17165	29794	0.86	6.0E-54	AV754746.1	EST_HUMAN	AV754746 TP Homo sapiens cDNA clone TFGAAC10 5'
4792	17523	30145	1.78	6.0E-54	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4GA) mRNA
4819	17550		1.15	6.0E-54	Y08848.1	NT	H. sapiens shc pseudogene, p66 isoform
11432	23199	36430	1.51	6.0E-54	AW813567.1	EST_HUMAN	RC3-ST0197-151099-011-108 ST0197 Homo sapiens cDNA
2146	14876	27811	3.78	5.0E-54	P51523	SWISSPROT	ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPF2)
178	12990		13.34	4.0E-54	AF110103.1	NT	Tupala belangeri beta-actin mRNA, partial cds
936	13703	26368					EST1177696 Jurkat T-cells V1 Homo sapiens cDNA 5' end similar to glyceraldehyde-3-phosphate dehydrogenase
1798	14538	27248	3.22	4.0E-54	AA306764.1	EST_HUMAN	Human mRNA for KIAA0077 gene, partial cds
1798	14538	27249	3.22	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
3199	15982						w026d11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2329268 3' similar to TR:002711
92	12918	25555	1	4.0E-54	AI935086.1	EST_HUMAN	002711 PRO-POL-DUTPASE POLYPROTEIN;
1585	14312		4.47	3.0E-54	AA313487.1	EST_HUMAN	EST186371 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
2574	16288	28025	0.91	3.0E-54	AW515742.1	EST_HUMAN	hd87g08.x1 NCJ_CGAP_G06 Homo sapiens cDNA clone IMAGE:2918542 3'
2630	15342		0.96	3.0E-54	AL110383.1	EST_HUMAN	DKFZp434E0731 J1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434E0731 5'
5814	18003	31531	1.34	3.0E-54	AI908757.1	EST_HUMAN	IL-BT189-180399-007 BT189 Homo sapiens cDNA
7288	19971	33048	1.74	3.0E-54	4502434	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX) mRNA
7288	19971	33048	2.1	3.0E-54	AA844061.1	EST_HUMAN	ai82c08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'
7288	19971	33049	2.1	3.0E-54	AA844061.1	EST_HUMAN	ai82c08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10049	23627		1.63	3.0E-54	11434806	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 5 (GOLGA5), mRNA
11024	23696	36959	4.93	3.0E-54	BF345600.1	EST_HUMAN	602019408F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4155121 5'
11341	24031	37335	3.26	3.0E-54	AA393362.1	EST_HUMAN	Z707012.1 Sources_testis_NHT Homo sapiens cDNA clone IMAGE:727727 5' similar to TR:G191315
12056	24573	31119	2.98	3.0E-54	AW964559.1	EST_HUMAN	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN ;
12097	25373		2.51	3.0E-54	AW748965.1	EST_HUMAN	EST366629 MAGC resequences, MAGC Homo sapiens cDNA
627	13408	26040	8.86	2.0E-54	5031900	NT	RC1-BT0313-131189-011-609 BT0313 Homo sapiens cDNA
1344	14092	26767	0.96	2.0E-54	4507184	NT	Homo sapiens killer cell lectin-like receptor subfamily G, member 1 (KLRG1), mRNA
1539	14286	26972	1.37	2.0E-54	AA655008.1	EST_HUMAN	Homo sapiens nuclear antigen Sp100 (SP100) mRNA
2541	15255	27895	1.22	2.0E-54	AW163175.1	EST_HUMAN	m78e09.s1 NCI_CGAP_P13 Homo sapiens cDNA clone IMAGE:1204600 similar to contains element L1
2608	15320	28062	1.65	2.0E-54	AL163210.2	NT	repetitive element ;
2696	15963	28311	1.52	2.0E-54	AW057524.1	EST_HUMAN	au62g03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783784 5' similar to
3311	16071	28721	1.18	2.0E-54	AJ278314.1	NT	SW:GUL1_HUMAN Q13616 CULLIN HOMOLOG 1 ;
3536	16292		3.2	2.0E-54	AA532925.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
4181	16921		2.06	2.0E-54	4502642	NT	wy60b12.x1 Sources_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2552927 3' similar to
4826	17556	30178	1.02	2.0E-54	7706446	NT	TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING ;
5368	18186	30890	1.84	2.0E-54	4759069	NT	Homo sapiens mRNA for phospholipase C-beta-1b (PLCB1 gene)
5516	18314	31216	1.2	2.0E-54	BE047984.1	EST_HUMAN	nj45g09.s1 NCI_CGAP_P19 Homo sapiens cDNA clone IMAGE:995488 similar to gb:X63777 60S
5675	18469	31385	5.04	2.0E-54	11426657	NT	RIBOSOMAL PROTEIN L23 (HUMAN);
5771	18562	31489	13.99	2.0E-54	AB046811.1	NT	Homo sapiens chaperonin containing T-complex subunit 6 (CCT6) mRNA
6559	18324	32331	0.86	2.0E-54	AB046811.1	NT	Homo sapiens peptidylarginine deiminase type III (LOC51702), mRNA
6713	19628	32672	0.85	2.0E-54	AB023212.1	NT	Homo sapiens small inducible cyclin subfamily A (Cyc-Cys), member 14 (SCYA14) mRNA
6713	19628	32673	0.85	2.0E-54	AB023212.1	NT	tz43c11.y1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2291348 5'
7023	19715	32772	8.6	2.0E-54	11426544	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
9529	22182	35366	4.11	2.0E-54	AB001025.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
9909	22558	35753	0.79	2.0E-54	11428127	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
10021	22686	35885	1.01	2.0E-54	11416762	NT	Homo sapiens EVI5 homolog mRNA, complete cds
10021	22689	35886	1.01	2.0E-54	11416762	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
							Homo sapiens neurofascin 1 (neurofascin, von Recklinghausen disease, Watson disease) (NF1), mRNA
							Homo sapiens mRNA for brain ryanodine receptor, complete cds
							Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
							Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA
							Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10947	19324	32331	1.57	2.0E-54	AF008915.1	NT	Homo sapiens EVI5 homolog mRNA, complete cds
11727	24321		2.86	2.0E-54	7857454	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
4432	17168		1.22	1.0E-54	BF315418.1	EST_HUMAN	601899230F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128535 5'
10153	22801	36018	0.32	1.0E-54	AA412409.1	EST_HUMAN	zu10e09.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:731464 5'
10153	22801	36019	0.52	1.0E-54	AA412409.1	EST_HUMAN	zu10e09.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:731464 5'
12710	24986		2.17	1.0E-54	AU077341.1	EST_HUMAN	AU077341 Sugeno cDNA library Homo sapiens cDNA clone Zr6C880 similar to 5'-end region of Human gamma-glutamyl transpeptidase mRNA, 5' end
10257	22905	36115	0.94	9.0E-55	BE081469.1	EST_HUMAN	QV2-BT0635-180400-143-h12 BT0635 Homo sapiens cDNA
1292	14041		1.09	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1295	14044		2.63	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
11151	23818		1.67	8.0E-55	AW409714.1	EST_HUMAN	fh02e02.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960907 5'
1059	13817	26479	0.77	7.0E-55	R09346.1	EST_HUMAN	Y28e04.r1 Soares fetal liver spleen_1NFLS Homo sapiens cDNA clone IMAGE:127998 5' similar to SP:C561_BOVIN P10897 CYTOCHROME ;
8703	21395		0.8	7.0E-55	AW103839.1	EST_HUMAN	xd76c02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603522 3' similar to TR:O60365
9080	21769	34932	1.26	7.0E-55	AA889591.1	EST_HUMAN	ak28a11.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1407260 3'
9115	21803	34968	2.16	7.0E-55	AU139909.1	EST_HUMAN	AU139909 PLACE1 Homo sapiens cDNA clone PLACE1011578 5'
11171	23838	37120	10.32	7.0E-55	AI561056.1	EST_HUMAN	tg29f09.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2210249 3'
11171	23838	37121	10.32	7.0E-55	AI561056.1	EST_HUMAN	tg29f09.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2210249 3'
12682	25303		2.5	7.0E-55	H23396.1	EST_HUMAN	ym57g07.r1 Soares infant brain_1NIB Homo sapiens cDNA clone IMAGE:52444 5'
11498	24089	37412	2.45	6.0E-55	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
1763	14505	27205	1.19	5.0E-55	AA704971.1	EST_HUMAN	z95b09.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462617 3'
1763	14505	27206	1.19	5.0E-55	AA704971.1	EST_HUMAN	z95b09.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462617 3'
4720	17452	30086	1.81	5.0E-55	AW206021.1	EST_HUMAN	U-H-B11-efy-q-09-0-UJ.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2723536 3'
6446	19214	32211	1.65	5.0E-55		NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6446	19214	32212	1.65	5.0E-55	4502240	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6568	25094	32340	1.34	5.0E-55	4505952	NT	Homo sapiens peroxonase 2 (PON2) mRNA, and translated products
6568	25094	32341	1.34	5.0E-55	4505952	NT	Homo sapiens peroxonase 2 (PON2) mRNA, and translated products
6937	19872	32718	0.83	5.0E-55	7382477	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 5, mRNA
7195	19881	32955	0.7	5.0E-55	11434422	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA
7893	20586	33718	0.72	5.0E-55	11528491	NT	Homo sapiens BCL2-associated athanogene (BAG1), mRNA
8942	21633	34777	3.53	5.0E-55	4506302	NT	Homo sapiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA) mRNA
9219	21899		1.75	5.0E-55	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA
9937	22585	35786	1.77	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9037	23585	35787	1.77	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10122	22770	35984	2.48	5.0E-55	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
12137	24626		2.73	5.0E-55	11417972	NT	Homo sapiens peccadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
657	13434	26075	65.4	4.0E-55	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM Y1A1) mRNA
1421	14109	26853	1.78	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1421	14169	26854	1.78	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1504	14250		1.7	4.0E-55	BF061411.1	EST_HUMAN	7/52b10.x1 Source NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3390043 3' similar to contains L1.3 L1 repetitive element;
2019	14754	27482	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2019	14754	27483	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2079	14811	27542	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (80kD) (DGKG) mRNA
2079	14811	27543	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (80kD) (DGKG) mRNA
2308	15033	27771	2.29	4.0E-55	4507794	NT	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA
2698	15310		1.21	4.0E-55	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8242	20936		8.37	4.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11194	23859		2.3	4.0E-55	W28189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12057	24574		3.05	4.0E-55	BF303941.1	EST_HUMAN	60188657F2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4120338 5'
11998	24536		1.5	3.0E-55	BE178519.1	EST_HUMAN	PM1-HT0603-090300-001-g08 HT0603 Homo sapiens cDNA
12721	24993		1.85	3.0E-55	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
368	13164	25907	1.98	2.0E-55	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
538	13321		1.13	2.0E-55	M10978.1	NT	Human endogenous retroviral DNA (4-1), complete proviral segment
634	13413	26049	13.79	2.0E-55	4507298	NT	Homo sapiens syntaxin-binding protein 1 (STXB1) mRNA, and translated products
4723	17455	30090	2.91	2.0E-55	BE719986.1	EST_HUMAN	CM1-HT0876-150800-357-g03 HT0876 Homo sapiens cDNA
7403	25113	33162	0.76	2.0E-55	AW501988.1	EST_HUMAN	UHF-BNO-aka-f-08-o-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078275 5'
8963	21654	34804	0.52	2.0E-55	BF224462.1	EST_HUMAN	hr76h08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
8963	21654	34805	0.52	2.0E-55	BF224462.1	EST_HUMAN	hr76h08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
9038	21747		6.23	2.0E-55	AJ002838.1	EST_HUMAN	am8h06.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684185 3' similar to contains THR.b2 THR repetitive element;
9140	21828		0.72	2.0E-55	BE007959.1	EST_HUMAN	QV0-BN0147-280400-213-g06 BN0147 Homo sapiens cDNA
10870	23550	36798	1.95	2.0E-55	AU118344.1	EST_HUMAN	AU118344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
95	12921	25558	3.01	1.0E-55	4506060	NT	Homo sapiens mannose-6-phosphate receptor (cation dependent) (M6PR) mRNA
184	12987	25636	8.22	1.0E-55	U09823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabelfia2) mRNA, complete cds
1127	13883	26543	3.53	1.0E-55	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1943	14678	27391	1.58	1.0E-55	BE27861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987027 5'
1943	14678	27392	1.58	1.0E-55	BE27861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987027 5'
2324	15049		2.48	1.0E-55	5803174	NT	Homo sapiens SMA3 (SMA3), mRNA
2338	15528	27799	1.17	1.0E-55	AF000980.1	NT	Homo sapiens testis-specific Testis Transcript Y 1 (TTY1) mRNA, partial cds
2521	15237	27978	9.05	1.0E-55	X13111.1	NT	Human mRNA for HLA-A11E, a MHC class I molecule (major histocompatibility complex)
2559	15273	28009	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
2559	15273	28010	4.19	1.0E-55	AB007866.2	NT	Homo sapiens CLP mRNA, partial cds
2617	15328	28071	1.72	1.0E-55	L54057.1	NT	Homo sapiens chromosome 21 segment HS21C087
3970	16719	28353	4.28	1.0E-55	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C010
4262	17003	28635	1.26	1.0E-55	AL163210.2	NT	yw44g03.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:245620 5'
4882	17410		1.02	1.0E-55	N77281.1	EST_HUMAN	Homo sapiens PRO1851 mRNA, complete cds
5410	18209	30917	0.97	1.0E-55	AF119858.1	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6178	18955	31929	6.82	1.0E-55	11433046	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6178	18955	31930	6.82	1.0E-55	11433046	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7888	20583	33712	1.84	1.0E-55	11432984	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7888	20583	33713	1.84	1.0E-55	11432984	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
7980	20675	33798	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
7980	20675	33800	0.89	1.0E-55	AF224492.1	NT	Homo sapiens chromosome 21 segment HS21C010
10829	23511	36751	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
10829	23511	36752	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11425	23192	36423	2.53	1.0E-55	U60950.1	NT	Homo sapiens chromosome 21 segment HS21C010
11444	23211	36442	1.5	1.0E-55	T10045.1	EST_HUMAN	seq1575 b4HB3MA Cot8-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F61 5' similar to similar to Chinese Hamster DHFR-coamplified protein mRNA
11509	24108	37482	2.35	1.0E-55	10567821	NT	Homo sapiens DNA-binding protein (LOC58242), mRNA
7265	19949	33028	1.83	9.0E-56	BE378074.1	EST_HUMAN	601237702F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609552 5'
2737	15444	28182	5.32	7.0E-56	H19934.1	EST_HUMAN	yr62g03.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:173044 5' similar to contains THR repetitive element;
7540	20210	33309	1.67	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231089-013-b07 CT0252 Homo sapiens cDNA
7540	20210	33310	1.67	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231089-013-b07 CT0252 Homo sapiens cDNA
1687	14431	27127	1.78	5.0E-56	AW997712.1	EST_HUMAN	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA
9050	21748	34908	0.86	5.0E-56	AW015507.1	EST_HUMAN	UH-H-B10p-eau-e-05-Q-U1.s1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2710544 3'
10266	22834		1.81	5.0E-56	W28198.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12220	23359	30610	2	5.0E-56	H56099.1	EST_HUMAN	CHR220038 Chromosome 22 exon Homo sapiens cDNA clone C22_55 5'
26	12854	25469	8.58	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
28	12854	25470	8.58	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
2173	14902		2.69	4.0E-56	BF207588.1	EST_HUMAN	601862059F1 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:4081551 5'
2712	15410	28157	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2712	15419	28158	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2815	13297	25929	3.49	4.0E-56	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2836	15331	28074	1.48	4.0E-56	AI832488.1	EST_HUMAN	w609r08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA P27119 ORNITHINE DECARBOXYLASE
2838	15331	28075	1.48	4.0E-56	AI832488.1	EST_HUMAN	w609r08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA P27119 ORNITHINE DECARBOXYLASE
6164	18941	31912	8.01	4.0E-56	AF217508.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
6164	18941	31913	8.01	4.0E-56	AF217508.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10403	23049	36268	2.02	4.0E-56	AF043349.1	NT	Homo sapiens lymphocyte-specific protein 1 (LSP1) gene, LSP1-7 allele, partial cds
10841	23523	36784	8.88	4.0E-56	AK498066.1	EST_HUMAN	tm65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163046 3'
10841	23523	36785	8.88	4.0E-56	AK498066.1	EST_HUMAN	tm65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163046 3'
1319	14068	26742	4.17	3.0E-56	8924029	NT	Homo sapiens hypothetical protein PRO1304 (PRO1304), mRNA
3122	15887	28527	1.54	3.0E-56	AA325826.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3122	15887	28528	1.54	3.0E-56	AA325826.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3815	16567		1.61	3.0E-56	AF055096.1	NT	Homo sapiens MHC class 1 region
4355	17093	29728	1.43	3.0E-56	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
4390	17127	29759	4.27	3.0E-56	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21G068
4534	17269	29902	2.34	3.0E-56	5902085	NT	Homo sapiens superkiller viral-like activity 2 (S. cerevisiae homolog)-like (SKIV2L), mRNA
5588	18393	31302	2.12	3.0E-56	4759163	NT	Homo sapiens sparc/osteonectin, ovcv and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
5598	18393	31303	2.12	3.0E-56	4759163	NT	Homo sapiens sparc/osteonectin, ovcv and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
6775	19519	32547	7.03	3.0E-56	11421124	NT	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), mRNA
7223	19908	32981	1.15	3.0E-56	4504970	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
7223	19908	32982	1.15	3.0E-56	4504970	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
8715	21407	34550	4.68	3.0E-56	11418704	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
9713	22364	35562	0.85	3.0E-56	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10370	23025	36240	1.38	3.0E-56	11434956	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10942	23333	36571	1.71	3.0E-56	AB042556.1	NT	Homo sapiens mRNA, similar to rat myonectin, complete cds
11284	23945	37239	6.37	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11284	23945	37240	6.37	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
11673	24288	37580	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
11673	24288	37591	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
12095	24597	31083	1.52	3.0E-56	11434878	NT	Homo sapiens caveolin 3 (CAV3), mRNA
12095	24597	31084	1.52	3.0E-56	11434878	NT	Homo sapiens caveolin 3 (CAV3), mRNA
511	13295		1.7	2.0E-56	AA199818.1	EST_HUMAN	zq52a08.t1 Stratiogene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:645208 3'
716	15550	26141	1.05	2.0E-56	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
716	15550	26142	1.05	2.0E-56	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
2987	15753	28399	1.18	2.0E-56	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3523	16279	28834	1.64	2.0E-56	AV703184.1	EST_HUMAN	AV703184 ADB Homo sapiens cDNA clone ADBCFG10 5'
6990	19883	32731	1.47	2.0E-56	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
959	13724		1.84	1.0E-56	AF190930.1	NT	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
3684	18417	29068	2.15	1.0E-56	AW589833.1	EST_HUMAN	hg23c11.x1 NCI_CGAP_GC08 Homo sapiens cDNA clone IMAGE:2846452 3'
3684	18417	29057	2.15	1.0E-56	AW589833.1	EST_HUMAN	hg23c11.x1 NCI_CGAP_GC08 Homo sapiens cDNA clone IMAGE:2846452 3'
4972	17898	30303	0.99	1.0E-56	AI905162.1	EST_HUMAN	QV-BT077-130199-079 BT077 Homo sapiens cDNA
5118	17836	30453	0.97	1.0E-56	6881002	NT	Mus musculus cytoplasmic polyadenylation element binding protein (Cpeb), mRNA
6724	19558	32589	0.57	1.0E-56	AW609520.1	EST_HUMAN	MF3-ST0203-180100-208-H02 ST0203 Homo sapiens cDNA
9855	22505		0.59	1.0E-56	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
9948	22506	35800		1.0E-56	AW845987.1	EST_HUMAN	RC2-CT0163-220999-001-E02 CT0163 Homo sapiens cDNA
611	13389		1.71	1.0E-56	AW845987.1	EST_HUMAN	QV0-OT0033-070300-152-H03 OT0033 Homo sapiens cDNA
4180	19920	29548	2.52	9.0E-57	AW880885.1	EST_HUMAN	Homo sapiens EphA4 (EPHA4) mRNA
4180	19920	29549	1.14	9.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
11183	23848	37134	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11183	23848	37135	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11608	24107	37420	1.48	9.0E-57	AB020981.1	NT	Homo sapiens mRNA for cyclin B2, complete cds
290	13096	25738	3.01	8.0E-57	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-H05 ST0234 Homo sapiens cDNA
864	13633	26303					xx05d10.x1 NCI_CGAP_Brm53 Homo sapiens cDNA clone IMAGE:2759251 3' similar to gb:U05875
1809	14549	27284	6.36	8.0E-57	AW284598.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (HUMAN);
3376	16135	28791	1.51	8.0E-57	AA496109.1	EST_HUMAN	z61b12.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757151 5'
3376	16135	28792	0.98	8.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
3378	16135	28792	0.98	8.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4852	17582	30205	1.3	8.0E-57	4557630	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIA4) mRNA
5161	25278	30728	3.29	8.0E-57	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
6308	19078	32063	1.85	8.0E-57	AB020705.1	NT	Homo sapiens mRNA for KIAA0898 protein, partial cds

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6372	19141	32137	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0980 protein, partial cds
6372	19141	32138	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0980 protein, partial cds
7349	20030	33107	0.84	8.0E-57	7682263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7648	20312	33423	1.7	8.0E-57	AB020644.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
7648	20312	33424	1.7	8.0E-57	AB020644.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
11460	17869	30487	3.29	8.0E-57	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
12459	24828	31028	2.74	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12473	24828	31028	1.69	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12820	25060		2.07	8.0E-57	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2639	16350	28093	1.71	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
2639	16350	28094	1.71	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
3244	16006	28655	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3244	16006	28656	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3285	16027	28677	1.08	7.0E-57	6005979	NT	Homo sapiens Kruppel-like factor 8 (KLF8), mRNA
3858	16008	29246	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
3858	16008	29247	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
4398	17135		0.95	7.0E-57	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5
4730	17462	30088	0.95	7.0E-57	U11058.2	NT	Homo sapiens large conductance calcium- and voltage-dependent potassium channel alpha subunit (MaxdK) mRNA, complete cds
12785	25310		2.63	5.0E-57	AJ271735.1	NT	Homo sapiens Xci pseudautosomal region; segment 1/2
3736	18489	29125	1.67	4.0E-57	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
786	13558	26220	0.78	3.0E-57	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBES3A) mRNA
1308	14058		16.24	3.0E-57	AA230278.1	EST_HUMAN	no1307.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1008037 similar to SW:RS10_HUMAN
2390	15111	27848	2.99	3.0E-57	AA348335.1	EST_HUMAN	P46783.40S RIBOSOMAL PROTEIN S10. ;
2707	15414	28151	0.96	3.0E-57	BE676622.1	EST_HUMAN	EST54770 Hippocampus II Homo sapiens cDNA 5' end
2707	15414	28152	0.95	3.0E-57	BE676622.1	EST_HUMAN	733b10.x1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:3298443 3' similar to WP:Y47H9C.2
3550	16305	28955	1.74	3.0E-57	AF232708.1	NT	CE20263 ;
3685	16438		62.34	3.0E-57	AW853964.1	EST_HUMAN	733b10.x1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:3298443 3' similar to WP:Y47H9C.2
							Homo sapiens cell-line taA201a chloride ion current inducer protein [(Cin) gene, complete cds
							RC3-CT0254-110300-027-d10 CT0254 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5039	18721	31680	1.24	3.0E-57	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-di-peptidase A) 2 (ACE2), mRNA
6033	18813	31773	3.23	3.0E-57	BE796537.1	EST_HUMAN	601569896F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
8044	20738	33871	3.77	3.0E-57	W28130.1	EST_HUMAN	4276 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
8070	20784	33892	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8070	20784	33893	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8179	20873	34008	0.7	3.0E-57	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
8328	21021	34157	0.73	3.0E-57	J05262.1	NT	Human farnesyl pyrophosphate synthetase mRNA, complete cds
8757	21449	34596	4.17	3.0E-57	AU117659.1	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
9149	21880	35047	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
9149	21880	35048	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
10825	23508	36747	2.85	3.0E-57	AW248374.1	EST_HUMAN	2820473.5 prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820473 5'
12101	25381	30616	8.38	3.0E-57	W23871.1	EST_HUMAN	zb45d11.1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:306549 5'
12480	25281		2.32	3.0E-57	AW178576.1	EST_HUMAN	RC0-HIT0112-080999-001-C06 HT0112 Homo sapiens cDNA
12823	24928	31010	1.48	3.0E-57	AJ003849.1	EST_HUMAN	AJ003849 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPIp110-1L1
1487	14234	26919	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1487	14234	26920	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3432	16188		1.24	2.0E-57	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3910	16660	29301	0.79	2.0E-57	BE073264.1	EST_HUMAN	MRO-BT0551-060300-103-b03 BT0551 Homo sapiens cDNA
4474	17209	29834	6.73	2.0E-57	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
5582	18379		1.84	2.0E-57	AA016131.1	EST_HUMAN	za31c06.1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360594 5' similar to contains L1.13 L1 repetitive element;
5043	18725		33.81	2.0E-57	BF116266.1	EST_HUMAN	7n80f04.x1 NCL_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570966 3' similar to contains TAR1.11 MER22 repetitive element;
6067	18846	31810	0.66	2.0E-57	11431281	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA
8529	21221	34363	1.08	2.0E-57	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
9746	22307	35602	1.86	2.0E-57	AF061722.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exons 3 and 4
10525	23171	36398	0.49	2.0E-57	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
10525	23171	36399	0.49	2.0E-57	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11238	23901	37189	2.42	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11238	23901	37190	2.42	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
8593	21285		3.62	1.0E-57	BE043031.1	EST_HUMAN	ha32a08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3039062 3' similar to TR-000246 000246 HYPOTHETICAL 9.3 KD PROTEIN;
12249	24696		5.08	1.0E-57	AW470791.1	EST_HUMAN	ha33a08.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875489 3' similar to contains THR.b3 THR repetitive element;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5501	18387	31297	0.99	9.0E-58	AA287847.1	EST_HUMAN	EST11348 Uterus Homo sapiens cDNA 5' end
12516	24865	31015	1.55	9.0E-58	BE395061.1	EST_HUMAN	601309465F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
575	13355		1.76	8.0E-58	BE968715.1	EST_HUMAN	601445948F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:3850211 5'
639	13418	26055	4.18	8.0E-58	A1798376.1	EST_HUMAN	t34b07.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN;
639	13418	26055	4.18	8.0E-58	A1798376.1	EST_HUMAN	t34b07.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN;
1849	14587	27301	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
1849	14587	27302	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
2874	15740		2.32	8.0E-58	7706132	NT	Homo sapiens DHHC1 protein (LOC61304), mRNA
10762	23446		5.87	7.0E-58	5174542	NT	Homo sapiens MAD5 box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B) mRNA
10847	23529	36773	3.6	7.0E-58	AW504109.1	EST_HUMAN	U1-HF-BND-ali-g-10-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079867 5'
10847	23529	36774	3.6	7.0E-58	AW504109.1	EST_HUMAN	U1-HF-BND-ali-g-10-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079867 5'
2251	14979	27718	1.02	6.0E-58	BE395061.1	EST_HUMAN	601309465F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
2375	15097	27837	3.78	6.0E-58	AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001283 5'
2802	15868	28316	1.2	6.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project-TCAA Homo sapiens cDNA clone TCAAP1219
2802	15868	28317	1.2	6.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project-TCAA Homo sapiens cDNA clone TCAAP1219
8078	18857	31824	1.01	6.0E-58	AF109811.1	NT	Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete cds
10208	22856	36072	0.79	6.0E-58	11434746	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
12347	24754		1.58	6.0E-58	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
293	13089	25740	3.79	5.0E-58	4507334	NT	Homo sapiens synapdinin 1 (SYNJ1), mRNA
694	13469	26116	5.41	5.0E-58	BE763984.1	EST_HUMAN	RC4-NT0057-180800-076-b05 NT0057 Homo sapiens cDNA
1172	13926	26589	2.96	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1172	13926	26590	2.96	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1173	13928	26589	2.76	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1173	13928	26590	2.76	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
3317	16077	28727	4.32	5.0E-58	AA988183.1	EST_HUMAN	orf8e07.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1603908 3'
4229	16970	29594	0.92	5.0E-58	A1638745.1	EST_HUMAN	ts89e07.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2238468 3' similar to SW:PRO2_ACACA
5641	18338		2.32	6.0E-58	11498282	NT	P19984 PROFILIN II;
6085	18863	31829	6.86	5.0E-58	H23072.1	EST_HUMAN	Homo sapiens placenta-specific 1 (PLAC1), mRNA ym51h07.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:62071 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6301	19074	32060	0.95	5.0E-58	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6379	19148	32147	1.61	5.0E-58	11421330	NT	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
6680	19597	32636	0.68	5.0E-58	AF051334.1	NT	Homo sapiens ribon (NBS) mRNA, complete cds
6680	19597	32636	0.68	5.0E-58	AF051334.1	NT	Homo sapiens ribon (NBS) mRNA, complete cds
7006	19698	32752	0.73	5.0E-58	4885400	NT	Homo sapiens holocytochrome c synthase (cytochrome c heme-lyase) (HCCS) mRNA
7860	20564	33691	7.69	5.0E-58	8922683	NT	Homo sapiens hypothetical protein FLJ10828 (FLJ10828), mRNA
8251	20945	34083	0.7	5.0E-58	AB046837.1	NT	Homo sapiens mRNA for KIAA1617 protein, partial cds
9239	21918	35089	0.68	5.0E-58	5231227	NT	Homo sapiens ribonuclease 6 precursor (RNASE6PL) mRNA
9239	21918	35090	0.68	5.0E-58	5231227	NT	Homo sapiens ribonuclease 6 precursor (RNASE6PL) mRNA
9757	22408	35614	0.88	5.0E-58	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
10023	22671	35887	1.78	5.0E-58	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10300	22947	36161	0.83	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10300	22947	36162	0.83	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
11819	24405	37740	2.69	5.0E-58	11431079	NT	Homo sapiens chimera (chimerin) 1 (CHN1), mRNA
12071	25305		1.81	5.0E-58	11528293	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
12512	25330		1.5	5.0E-58	11428423	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
12732	25001		2.67	5.0E-58	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
364	13162	25804	4.5	4.0E-58	4502302	NT	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP5O) mRNA
779	13551	26212	0.88	4.0E-58	4504634	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
1452	14199	26883	1.09	4.0E-58	4503948	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2037	15349	28091	1.7	4.0E-58	U36261.1	NT	Human beta-prime-adeptin (BAM22) gene, exon 3
3319	16079	28729	1.03	4.0E-58	D16470.1	NT	Human mRNA, Xq terminal portion
3723	16478	29113	1.25	4.0E-58	9031960	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
11915	23974	37275	7.06	4.0E-58	11424059	NT	Homo sapiens E1B-55kDa-associated protein 5 (E1B-AP5), mRNA
326	13127		2.57	3.0E-58	R17879.1	EST_HUMAN	Yg10a02.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31693.5'
1368	14118	28791	2.36	3.0E-58	4758981	NT	Homo sapiens peptide YY (PYY) mRNA
3174	15937	28585	2.78	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4308943.5'
3174	15937	28586	2.78	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4308943.5'
6167	18944	31915	0.63	3.0E-58	BE089509.1	EST_HUMAN	QV0-BT0702-170400-194-08 BT0702 Homo sapiens cDNA
6362	19122	32114	1.43	3.0E-58	F07056.1	EST_HUMAN	HSC1TG081 normalized infant brain cDNA Homo sapiens cDNA clone c-1lg08
6544	19309	32314	1.4	3.0E-58	AV712977.1	EST_HUMAN	AV712877 DCA Homo sapiens cDNA clone DCAAZG04.5'
919	13686	26350	11.9	2.0E-58	AF068624.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1267	14018		10	2.0E-58	BE208532.1	EST_HUMAN	be08b07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb:U69391 60S RIBOSOMAL PROTEIN L8 (HUMAN); gb:X81987 M.musculus mRNA for TAX responsive element binding protein (MOUSE);
5273	25065	30708	3.4	2.0E-58	BE907186.1	EST_HUMAN	601498961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
5273	25065	30734	3.4	2.0E-58	BE907186.1	EST_HUMAN	601498961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
5966	18748	31709	1.12	2.0E-58	BF513488.1	EST_HUMAN	U1H-BW1-ams-g-11-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071060 3'
6031	18811	31771	1.88	2.0E-58	AI124874.1	EST_HUMAN	am57e02.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1536674 3' similar to WP:ZK328.1 CE05085 UBIQUITIN CONJUGATING ENZYME; RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN;
6062	18841	31803	0.8	2.0E-58	R92567.1	EST_HUMAN	yq08h06.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:196378 5'
6828	19489	32511	1.12	2.0E-58	AI291407.1	EST_HUMAN	qim84601.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1806424 3'
7056	19747	32809	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7056	19747	32810	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
10641	23332	36570	21.77	2.0E-58	BF307745.1	EST_HUMAN	601890812F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131891 5'
10685	23565	36813	2.43	2.0E-58	AW872841.1	EST_HUMAN	hm25f08.x1 NCI_CGAP_Thy4 Homo sapiens cDNA clone IMAGE:3013671 3'
705	13480	26128	0.86	1.0E-58	M65134.1	NT	Human complement component C5 mRNA, 3' end
1046	13805	26464	2.41	1.0E-58	6274549	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22kD, B22) (NDUFB9), mRNA
1304	14053	26726	1.61	1.0E-58	AW967182.1	EST_HUMAN	EST389252 IMAGE resequences, MAGD Homo sapiens cDNA
1304	14053	26727	1.61	1.0E-58	AW967182.1	EST_HUMAN	EST389252 IMAGE resequences, MAGD Homo sapiens cDNA
1376	14124	26798	1.13	1.0E-58	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
2805	15510	28251	2.37	1.0E-58	4750160	NT	Homo sapiens steroid regulatory element binding transcription factor 2 (SREBF2) mRNA
2834	14738	27462	1.6	1.0E-58	5174444	NT	Homo sapiens G protein-coupled receptor 69A (GPR69A) mRNA
3526	16282	28938	0.88	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3526	16282	28939	0.88	1.0E-58	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
4913	17841	30258	4.75	1.0E-58	AI141063.1	EST_HUMAN	oz43h01.x1 Soares NIHMFu_S1 Homo sapiens cDNA clone IMAGE:1678129 3'
5761	18543	31465	1.91	1.0E-58	BE081890.1	EST_HUMAN	RC1-BT0254-290100-015-e01 BT0254 Homo sapiens cDNA
6764	19508	32533	0.8	1.0E-58	11422031	NT	Homo sapiens hypothetical protein (LOC51280), mRNA
8013	20708		0.5	1.0E-58	AW973537.1	EST_HUMAN	EST385637 IMAGE resequences, MAGM Homo sapiens cDNA
8768	21460	34609	0.66	1.0E-58	4505314	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8880	21571	34714	0.91	1.0E-58	AV751001.1	EST_HUMAN	AV751001 NPC Homo sapiens cDNA clone NPCAGH09 5'
8979	21669	34818	0.66	1.0E-58	AA412397.1	EST_HUMAN	z69f05.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:730497 5'
8979	21669	34819	0.66	1.0E-58	AA412397.1	EST_HUMAN	z69f05.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:730497 5'
10086	22734	35949	1.21	1.0E-58	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (Dlgsyn-110) (DLG2), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11780	24371		2.11	1.0E-58	X83392.1	NT	H. sapiens immunoglobulin kappa light chain variable region L14
11816	24404	37739	1.57	1.0E-58	D61405.1	NT	Human MSH3 gene, exon10
2225	14953	27691	29.49	8.0E-59	4507378	NT	Homo sapiens TATA box binding protein (TBP) mRNA
8080	20774	33804	2.49	8.0E-59	A1761963.1	EST_HUMAN	wh50406.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384171 3'
173	15536		1.74	6.0E-59	BF035327.1	EST_HUMAN	801458531F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3862086 5'
8144	20838	33970	0.61	6.0E-59	A1750970.1	EST_HUMAN	cn08h02.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn08h02 random
1748	14490	27189	1.32	5.0E-59	AW157281.1	EST_HUMAN	au83h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to TR:075786 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
1748	14490	27190	1.32	5.0E-59	AW157281.1	EST_HUMAN	au83h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to
3124	15889	28530	6.98	5.0E-59	A1807484.1	EST_HUMAN	Wf48c11.x1 SNAres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2358836 3'
4610	17345	29978	6.55	5.0E-59	X83497.1	NT	H. sapiens DNA for ZNF80-linked ERV9 long terminal repeat
6892	17968	30526	7.5	5.0E-59	AW162304.1	EST_HUMAN	au86c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains element TAR1 repetitive element;
8705	21397	34544	1.04	5.0E-59	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
9604	22257	35443	1.62	5.0E-59	AV762860.1	EST_HUMAN	AV762869 MDS Homo sapiens cDNA clone MDSEIC12 5'
10823	23508	36745	3.78	5.0E-59	11434908	NT	Homo sapiens hypothetical protein (LOC87143), mRNA
776	13548	26210	1.56	4.0E-59	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
5450	18249	31138	1.03	4.0E-59	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
12203	25238		1.91	4.0E-59	AF057720.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
9	12836		6.13	3.0E-59	AW966524.1	EST_HUMAN	EST377582 MAGE resequences, MAGI Homo sapiens cDNA
219	13030	25606	4.58	3.0E-59	7682247	NT	Homo sapiens KIAA0880 gene product (KIAA0880), mRNA
1705	14448	27147	8.2	3.0E-59	4505860	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
1705	14448	27148	8.2	3.0E-59	4505860	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
2125	14858	27585	5.59	3.0E-59	AB028035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
2125	14858	27586	5.59	3.0E-59	AB028035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3126	15891	28534	3.77	3.0E-59	4502014	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3126	15891	28535	3.77	3.0E-59	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3805	16557	29189	1.45	3.0E-59	4508044	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
4638	17372	30007	0.98	3.0E-59	AL163284.2	NT	Homo sapiens zona pellucida glycoprotein 2 (sperm receptor) (ZP2) mRNA
4738	17470	30107	0.92	3.0E-59	4756329	NT	Homo sapiens chromosome 21 segment HS21C084
							Homo sapiens Testis-specific XX-related protein on Y (XXRY) mRNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4789	17520	30143	1.57	3.0E-59	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
4990	17713		0.97	3.0E-59	M95991.1	NT	Human prothrombin converting enzyme (NEC2) gene, exon 2
6126	18904	31872	2.12	3.0E-59	8824074	NT	Homo sapiens hypothetical protein PRO1741 (PRO1741), mRNA
7259	19043	33020	1.94	3.0E-59	8454137	NT	Homo sapiens nuclear receptor co-repressor 1 (NGOR1), mRNA
7832	20527	33663	1.16	3.0E-59	X12556.1	NT	Human mRNA for dcl proto-oncogene
7832	20527	33664	1.16	3.0E-59	X12556.1	NT	Human mRNA for dcl proto-oncogene
9044	22582	35794	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
9044	22582	35795	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
12327	24746		6.04	3.0E-59	11417868	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGT1A1), mRNA
7893	20357		0.71	2.0E-59	BF373326.1	EST_HUMAN	MR0-F10144-250700-002-a10 F10144 Homo sapiens cDNA
9537	22190		6.32	2.0E-59	AA309774.1	EST_HUMAN	EST180633 Jurkat T-cells V Homo sapiens cDNA 5' end
10425	23071		1.19	2.0E-59	BF365554.1	EST_HUMAN	RC0-NT0036-100700-032-a07 NT0036 Homo sapiens cDNA
10734	23421	36863	2.6	2.0E-59	AW410698.1	EST_HUMAN	fh07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961654 5'
10734	23421	36864	2.6	2.0E-59	AW410698.1	EST_HUMAN	fh07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961654 5'
11311	23970	37274	1.31	2.0E-59	H61604.1	EST_HUMAN	y49h09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:208673 5' similar to SP-POL_FENV1 P31792 POL POLYPROTEIN;
12091	24595	31126	2.83	2.0E-59	AI631809.1	EST_HUMAN	wa36c12.x1 NCI CGAP Kid11 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR:Q86542
12805	25283	30719	4.65	2.0E-59	L11645.1	NT	Q86542 RTVL-H PROTEIN. ; contains LTR7.b1 LTR7 repetitive element;
159	12974		3.03	1.0E-59	BE298411.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
1529	14276	26864					801176757F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531927 5'
2412	15133	27870	0.93	1.0E-59	T92522.1	EST_HUMAN	ye25c09.r1 Strategene lung (#937210) Homo sapiens cDNA clone IMAGE:118768 5' similar to SP:S21348
2412	15133	27871	1.19	1.0E-59	D11456.2	NT	S21348 HYPOTHETICAL PROTEIN 4 -;
			1.19	1.0E-59	D11456.2	NT	Homo sapiens Xdh mRNA for xanthine dehydrogenase, complete cds
							Homo sapiens Xdh mRNA for xanthine dehydrogenase, complete cds
2823	15335		2.47	1.0E-59	AA748468.1	EST_HUMAN	aa68h11.at NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309029 3' similar to TR:Q13537
7462	20135	33227	1.08	1.0E-59	AJ190894.1	NT	Q13537 MER37 TRANSDUCIBLE ELEMENT, COMPLETE CONSENSUS SEQUENCE -;
7617	20283	33392	0.97	1.0E-59	BE256814.1	EST_HUMAN	Homo sapiens mRNA for transcription factor
7617	20283	33393	0.97	1.0E-59	BE256814.1	EST_HUMAN	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352692 5'
9285	22039	35210	0.86	1.0E-59		NT	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352692 5'
9504	22157	35337	0.54	1.0E-59	11419630	NT	Homo sapiens zinc finger protein 275 (ZNF275), mRNA
9504	22157	35338	0.54	1.0E-59	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
10760	20135	33227	12.88	1.0E-59	AJ130894.1	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
747	13520	26178	0.85	8.0E-50	AW977845.1	EST_HUMAN	Homo sapiens mRNA for transcription factor
							EST389849 IMAGE resequences, MAGO Homo sapiens cDNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1455	14202	26886	2.65	8.0E-60	4759159	NT	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA
2169	14898	27632	3.6	8.0E-60	5174656	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
2169	14898	27633	3.6	8.0E-60	5174658	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
5892	18677	31623	1.12	8.0E-60	AB023004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6411	19179	32178	1.07	8.0E-60	S83182.1	NT	hyaluronan-binding protein-hepatocyte growth factor activator homolog [human, plasma, mRNA, 2408 nt]
7696	20284	33372	1.07	8.0E-60	11420841	NT	Homo sapiens phosphate cytidylyltransferase 1, choline, beta isoform (PCYT1B), mRNA
7865	20580	33687	2.28	8.0E-60	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
8837	21529	34675	2.6	8.0E-60	11428949	NT	Homo sapiens S-antigen; retina and pineal gland (erresstin) (SAG), mRNA
8371	21946	35118	0.98	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9371	21946	35119	0.98	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10473	23119	36348	0.59	8.0E-60	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10736	23423	36696	6.38	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
10736	23423	36697	6.38	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
737	13511	26169	3.61	7.0E-60	AF055006.1	NT	Homo sapiens MHC class 1 region
738	13511	26169	17.82	7.0E-60	AF055006.1	NT	Homo sapiens MHC class 1 region
796	13598	26228	0.98	7.0E-60	4504634	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
2124	14855	27584	1.08	7.0E-60	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2788	15483	28233	1.53	7.0E-60	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
4158	16898	29527	2.56	7.0E-60	4505488	NT	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA
9307	21974	35149	4.02	7.0E-60	H58041.1	EST_HUMAN	Y12704.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element;
11337	24027	37331	2.11	7.0E-60	H58041.1	EST_HUMAN	Y12704.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element;
2177	14906	27639	1.06	6.0E-60	BE964974.2	EST_HUMAN	601658751R1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3866069 3'
8336	21028		10.5	6.0E-60	H52456.1	EST_HUMAN	Y178H09.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:201963 5' similar to contains OFR repetitive element;
82	12908	25545	2.29	5.0E-60	AI807917.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
82	12908	25546	2.29	5.0E-60	AI807917.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
2972	15738		1.27	4.0E-60	AA299037.1	EST_HUMAN	EST11498 Uterus Homo sapiens cDNA, 5' end similar to similar to retrovirus-related pol
7253	19937	33012	0.89	4.0E-60	BF196088.1	EST_HUMAN	h81105.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW_RHOP_MOUSE
9024	21714		0.68	4.0E-60	AL163278.2	NT	Q61085 GTP-RHO BINDING PROTEIN 1;
11267	23928	37219	1.29	4.0E-60		NT	Homo sapiens chromosome 21 segment HS21C078
					11433597	NT	Homo sapiens v-rat-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11267	23929	37220	1.29	4.0E-60	11433597	NT	Homo sapiens v-raf-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA
1852	14590	27305	4.44	3.0E-60	BE562811.1	EST_HUMAN	001336448F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3680395 5'
1852	14590	27306	4.44	3.0E-60	BE562811.1	EST_HUMAN	001336448F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3680395 5'
1862	14800		1.82	3.0E-60	6031190	NT	Homo sapiens prohibitin (PHB) mRNA
4424	17160	29780	1.94	3.0E-60	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
5294	18099	30758	0.57	3.0E-60	BF365143.1	EST_HUMAN	QV4-NN1149-250900-423-401 NN1149 Homo sapiens cDNA
5554	18351	31260	2.12	3.0E-60	AW636196.1	EST_HUMAN	RC3-LT0023-200100-012-901 LT0023 Homo sapiens cDNA
8856	17833	30569	1	3.0E-60	A1792814.1	EST_HUMAN	060111.05 NCI_CGAP_K183 Homo sapiens cDNA clone IMAGE:1634053 5' similar to SW:UDP_MOUSE
8301	20995	34132	4.97	3.0E-60	5174844	NT	P52824 URDINE PHOSPHORYLASE ;
8301	20995	34133	4.97	3.0E-60	5174844	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8482	21174	34319	0.51	3.0E-60	A1040235.1	EST_HUMAN	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8641	21333	34477	4.32	3.0E-60	5174844	NT	SW:FORM_MOUSE Q05960 FORMIN ;
9559	22212	35398	0.47	3.0E-60	BF102612.1	EST_HUMAN	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
11162	23829	37107	1.26	3.0E-60	11427120	NT	001646227F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3830990 5'
11162	23829	37108	1.26	3.0E-60	11427120	NT	Homo sapiens CGI-152 protein (LOC57130), mRNA
12686	25297		2.06	3.0E-60	AA485286.1	EST_HUMAN	Homo sapiens CGI-152 protein (LOC57130), mRNA
29	12857	25474	3.63	2.0E-60	AY008285.1	NT	ab07104.r1 Stragene lung (#937210) Homo sapiens cDNA clone IMAGE:840151 5' similar to contains LTR10.11 LTR10 repetitive element ;
1404	14151	26831	7.35	2.0E-60	Z11694.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1715	14458	27155	1.29	2.0E-60	M24603.1	NT	H. sapiens 41kDa protein kinase related to rat ERK2
1724	14487	27166	1.59	2.0E-60	AY008285.1	NT	Human bet protein mRNA, 5' end
2714	15421	28180	1.98	2.0E-60	AW978005.1	EST_HUMAN	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
3565	16321	28939	0.89	2.0E-60	4757967	NT	EST390114 MAGE sequences, MAGO Homo sapiens cDNA
3895	16845	29285	0.73	2.0E-60	AF231919.1	NT	Homo sapiens v-raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
6208	18953	31932	0.86	2.0E-60	A1791952.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
6400	19168	32168	1.87	2.0E-60	AF004877.1	NT	nm011212.05 NCI_CGAP_C09 Homo sapiens cDNA clone IMAGE:1078495 5' similar to contains THR.11 THR repetitive element ;
6615	19378	32393	0.96	2.0E-60	AF151478.1	NT	Homo sapiens pro-alpha 2(I) collagen (COL1A2) gene, complete cds
6750	17919	30583	2.43	2.0E-60	4503044	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
6750	17919	30584	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA
6750	17919	30584	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7010	19702	32757	2.73	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' and similar to similar to prothymosin, alpha
7010	19702	32758	2.73	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' and similar to similar to prothymosin, alpha
7124	19812	32880	0.59	2.0E-60	AI308124.1	EST_HUMAN	tb23d00.x1 NCI CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2055185 3' similar to SW:GALR_RAT
7532	20202		0.79	2.0E-60	BF512808.1	EST_HUMAN	Q02806 GALANIN RECEPTOR
7904	20599	33729	0.84	2.0E-60	X85597.1	EST_HUMAN	UIH-BW1-enu-c02-0-UI.s1 NCI CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071210 3'
8766	21458	34608	3.01	2.0E-60	L38033.1	NT	HS15BEST human adult testis Homo sapiens cDNA clone CAM_EST15
9878	22528	35724	2.28	2.0E-60	11991659	NT	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds
9878	22528	35725	2.29	2.0E-60	11991659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A
11449	23216	36448	1.53	2.0E-60	11434729	NT	(SEMA6A), mRNA
11809	24398	37732	1.8	2.0E-60	BF530874.1	EST_HUMAN	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A
11809	24398	37733	1.8	2.0E-60	BF530874.1	EST_HUMAN	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
12394	24767		3.02	2.0E-60	11418192	NT	602071973F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4214683 5'
12494	25228		1.93	2.0E-60	AF088757.1	NT	602071973F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4214683 5'
12498	24851		2.34	2.0E-60	11418088	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA
12510	24902		1.77	2.0E-60	AB011399.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
509	13293	25925	1.13	1.0E-60	BE178586.1	EST_HUMAN	Homo sapiens similar to HSPC022 protein (H. sapiens) (LOC63504), mRNA
3892	18632	29271	1.16	1.0E-60	AU143339.1	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
4801	17628	30245	1.2	1.0E-60	AL163285.2	NT	PM3-HT0605-270200-001-e08 HT0605 Homo sapiens cDNA
7848	20543	33671	0.91	1.0E-60	BE064410.1	EST_HUMAN	AU1433389 Y79AA1 Homo sapiens cDNA clone Y79AA1001854 5'
8653	21345		3.46	1.0E-60	AA244041.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C085
8681	21373	34517	1.41	1.0E-60	AV754081.1	EST_HUMAN	RC4-BT0311-141198-011-h05 BT0311 Homo sapiens cDNA
1077	13835	26493	2.21	9.0E-61	AU119344.1	EST_HUMAN	nc04e12.r1 NCI CGAP_P1 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.H L1
2678	15385	28128	1.16	8.0E-61	AW009478.1	EST_HUMAN	repetitive element
2678	15385	28127	1.16	8.0E-61	AW009478.1	EST_HUMAN	AV754081 TP Homo sapiens cDNA clone TPGAED05 5'
2951	15717		1.53	8.0E-61	X57147.1	NT	AU116344 HEMBA1 Homo sapiens cDNA clone HEMBA1005683 5'
7796	20491	33614	1.05	8.0E-61	AA583968.1	EST_HUMAN	wb05b10.x1 NCI CGAP_C03 Homo sapiens cDNA clone IMAGE:2506555 3'
124	12941	25583	1.97	7.0E-61	7706870	NT	Human endogenous retrovirus pHE.1 (ERV9)
124	12941	25583	1.97	7.0E-61	7706870	NT	nm68g06.s1 NCI CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088218 3'
125	12941	25583	2.38	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25584	2.38	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA

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Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5034	12941	25583	1.04	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
5034	12941	25584	1.04	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
259	13067	25705	2.95	6.0E-61	BE409310.1	EST_HUMAN	601300838F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
793	13585	26228	1.62	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
1298	14047	26719	15	6.0E-61	AF118890.1	NT	Homo sapiens PRO2014 mRNA, complete cds
1626	14372	27061	0.97	6.0E-61	BE257400.1	EST_HUMAN	601109238F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350145 5'
1643	14389	27078	2.63	6.0E-61	AA586033.1	EST_HUMAN	nr68409.s1 NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088897 3'
2123	14854	27583	1.58	6.0E-61	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
3301	16063	28711	9.37	6.0E-61	AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
5941	18723	31682	3.37	6.0E-61	S79249.1	NT	lg-beta/B29-CD78b (alternatively spliced) [human, B cells, mRNA Partial, 375 nt]
7242	19927	33003	1.82	6.0E-61	U24498.1	NT	Human autosomal dominant polycystic kidney disease protein 1 (PKD1) gene
7518	20189	33282	1.67	6.0E-61	AF035737.1	NT	Homo sapiens general transcription factor 2-I (GTF2I) mRNA, complete cds
11474	24075	37384	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
11474	24075	37385	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
12265	13565	26226	1.62	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
350	13149	25789	1.73	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1674	14419	27112	2.22	5.0E-61	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3032	15798	28444	2.56	5.0E-61	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
3193	15956	28608	3.27	5.0E-61	4502106	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3963	16712		1.78	5.0E-61	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4941	13149	25789	1.07	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5080	17799	30416	3.38	5.0E-61	4502286	NT	Homo sapiens ATPase, Ca++ transporting, plasma membrane 1 (ATP2B1) mRNA
5726	18517	31438	0.87	4.0E-61	7881637	NT	Homo sapiens DKFZP668B023 protein (DKFZP668B023), mRNA
12068	24582		3.51	4.0E-61	AV731140.1	EST_HUMAN	AV731140 HTF Homo sapiens cDNA clone HTFARB01 5'
8320	21013	34151	0.69	3.0E-61	AF150190.1	EST_HUMAN	AF150190 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone CBDAGB04
8596	21288	34427	0.84	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
8596	21288	34428	0.84	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
486	13271	25906	1.52	2.0E-61	8922828	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
1190	13942	26907	0.82	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-d01 HT0513 Homo sapiens cDNA
1190	13942	26908	0.82	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-d01 HT0513 Homo sapiens cDNA
1690	14406	27097	1	2.0E-61	N53039.1	EST_HUMAN	yw53d11.s1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:246453 3' similar to dbL25444 90S RIBOSOMAL PROTEIN L35A (HUMAN);

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2647	15357		1.04	2.0E-61	N39397.1	EST_HUMAN	y03f11.1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:270189 5'
6332	19102	32090	0.98	2.0E-61	11428168	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD) (ATP8N1A), mRNA
8013	21604	34748	0.98	2.0E-61	AV694317.1	EST_HUMAN	AV694317 GKC Homo sapiens cDNA clone GKCEL006 5'
9462	22012		0.89	2.0E-61	AB011108.1	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
9822	22473	35676	1.87	2.0E-61	AW500256.1	EST_HUMAN	UI-HF-ERNO-ekd-f-12-Q-UI.1 NIH_MGC 50 Homo sapiens cDNA clone IMAGE:3078774 5'
10150	22798	36014	2.3	2.0E-61	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
10799	23482		1.81	2.0E-61	11419729	NT	Homo sapiens ribosomal protein L44 (RPL44), mRNA
756	13528	26188	1.11	1.0E-61	5453829	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L), mRNA
1851	14598	27304	3.71	1.0E-61	8005983	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
2193	14922	27656	1.42	1.0E-61	AW827281.1	EST_HUMAN	xt11b09.y1 NCL_CGAP_L15 Homo sapiens cDNA clone IMAGE:2693389 5' similar to contains element
2839	15607	28257	1.47	1.0E-61	BE386363.1	EST_HUMAN	MSR1 repetitive element:
3389	16128	28786	0.86	1.0E-61	7662319	NT	601273513F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3614667 5'
3715	16488	29106	1.2	1.0E-61	BE174453.1	EST_HUMAN	Homo sapiens KIAA0808 gene product (KIAA0808), mRNA
4407	17144	29773	0.81	1.0E-61	4759249	NT	QV2-HT0577-140300-077-g06 HT0577 Homo sapiens cDNA
4407	17144	29774	0.81	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4804	17635	30157	8.11	1.0E-61	AW298181.1	EST_HUMAN	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4804	17635	30158	8.11	1.0E-61	AW298181.1	EST_HUMAN	UI-H-BW0-ajt-b-08-Q-UI.s1 NCL_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
4905	17632	30247	0.75	1.0E-61	AL163210.2	NT	UI-H-BW0-ajt-b-08-Q-UI.s1 NCL_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
5309	18114	30772	1.82	1.0E-61	M76423.1	NT	Homo sapiens chromosome 21 segment HS21C010
5603	18398	31310	0.79	1.0E-61	7662303	NT	H. sapiens carbonic anhydrase VII (CA VII) gene, exons 4,5,6, and 7, and complete cds
5793	18594	31511	1.29	1.0E-61	11416891	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
6800	19491	32482	7.11	1.0E-61	M30135.1	NT	Homo sapiens survival of motor neuron 1, telomeric (SMN1), mRNA
6991	19694	32732	0.67	1.0E-61	4759171	NT	Human P40 T-cell and mast cell growth factor (hP40) gene, complete cds
7091	19790	32845	1.42	1.0E-61	8923130	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
7091	19790	32846	1.42	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8033	20728	33861	3	1.0E-61	11034840	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8212	20906	34041	3.06	1.0E-61	AF224669.1	NT	Homo sapiens growth hormone releasing hormone (GHRH), mRNA
9182	21852		2.7	1.0E-61	AW698726.1	EST_HUMAN	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9257	21936	35110	7.73	1.0E-61	11416280	NT	MRO-BN0070-040400-010-H01 BN0070 Homo sapiens cDNA
9828	22576	35775	5.24	1.0E-61	11428892	NT	Homo sapiens cadherin 18 (CDH18), mRNA
10531	23228	36462	2.84	1.0E-61	11425578	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
							Homo sapiens actinin, alpha 4 (ACTN4), mRNA

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10855	23535	36780	1.49	1.0E-61	AB044550.1	NT	Homo sapiens P/Okl.19 mRNA for ubiquitin-conjugating enzyme E2, complete cds
11006	23678	36935	1.53	1.0E-61	AB007830.1	NT	Homo sapiens mRNA for CSR2, complete cds
12007	25273	30726	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12007	25273	30727	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12659	24959	30888	11.56	1.0E-61	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
10255	22803	36113	1.45	9.0E-62	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
4614	17249	29885	1.1	8.0E-62	AA830420.1	EST_HUMAN	cc86h11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354725 3' similar to SW:POL_MLVRK
1085	13843	26501	1.62	7.0E-62	AV714334.1	EST_HUMAN	P31795 POL POLYPROTEIN;
3497	16253	28907	0.74	7.0E-62	P17480	SWISSPROT	AV714334 DOB Homo sapiens cDNA clone DCBAMA08 5'
5828	18815	31547	0.64	7.0E-62	11427895	NT	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1)
11323	24014	37317	7.1	7.0E-62	AJ208881.1	EST_HUMAN	(AUTOANTIGEN NOR-60)
2998	15764		1.42	6.0E-62	U09410.1	NT	Homo sapiens hypothetical protein (FLJ20261), mRNA
3379	16138		4.1	6.0E-62	11418255	NT	cg56a04.x1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1839150 3' similar to TR:O15103
7525	20196	33289	3.03	6.0E-62	AJ762801.1	EST_HUMAN	Human zinc finger protein ZNF131 mRNA, partial cds
7525	20196	33290	3.03	6.0E-62	AJ762801.1	EST_HUMAN	Homo sapiens CGI-56 protein (CGI-56), mRNA
7984	20879		0.72	6.0E-62	AW501124.1	EST_HUMAN	wf04402.x1 NCI_CGAP_GCL1 Homo sapiens cDNA clone IMAGE:2389251 3'
8155	20849	33981	1.45	6.0E-62	11431139	NT	wf04402.x1 NCI_CGAP_GCL1 Homo sapiens cDNA clone IMAGE:2389251 3'
9254	21833	35106	3.27	6.0E-62	AW814393.1	EST_HUMAN	UI-HF-BF0p-alk-4-09-0-UI.L1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072833 5'
407	13182	25840	2.8	5.0E-62	AJ850528.1	EST_HUMAN	Homo sapiens CGI-18 protein (LOC51008), mRNA
2406	15127	27863	4.25	6.0E-62	AJ271735.1	NT	MR3-ST0203-130100-025-a09 ST0203 Homo sapiens cDNA
2406	15127	27864	4.25	6.0E-62	AJ271735.1	NT	wf051607.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN
2598	15312	28048	1.35	5.0E-62	U39487.1	NT	Q08379 GOLGIN-96; contains element MER22 repetitive element;
2598	15312	28049	1.35	5.0E-62	U39487.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
3413	16171	28820	2.92	5.0E-62	4506758	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
4293	17032	29660	2.6	5.0E-62	AA431093.1	EST_HUMAN	Human xanthine dehydrogenase/oxidase mRNA, complete cds
8447	21139	34278	0.55	5.0E-62	4506758	NT	Human xanthine dehydrogenase/oxidase mRNA, complete cds
9417	22095	35287	6.45	5.0E-62	AW410687.1	EST_HUMAN	Homo sapiens tyrosine receptor 3 (TYR3) mRNA
11231	23804	37180	2.85	5.0E-62	11425574	NT	zw78a09.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT
11231	23894	37181	2.85	5.0E-62	11425574	NT	P47245 NARDILYSIN;
							Homo sapiens tyrosine receptor 3 (TYR3) mRNA
							fh07g09.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2861616 5'
							Homo sapiens muscle specific gene (MG), mRNA
							Homo sapiens muscle specific gene (MG), mRNA

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820	13591	26258	1.95	4.0E-62	AW161479.1	EST_HUMAN	eu71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
820	13591	26259	1.95	4.0E-62	AW161479.1	EST_HUMAN	eu71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26258	2.96	4.0E-62	AW161479.1	EST_HUMAN	eu71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26259	2.96	4.0E-62	AW161479.1	EST_HUMAN	eu71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2459	15177	27918	1.78	4.0E-62	A1827900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:X57138_ma1 HISTONE H2B.2 (HUMAN);
2459	15177	27917	1.78	4.0E-62	A1827900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:X57138_ma1 HISTONE H2B.2 (HUMAN);
3394	16153		6.34	4.0E-62	4557887	NT	Homo sapiens keratin 18 (KR18) mRNA
5833	18622	31555	1.84	4.0E-62	4506978	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA
6204	18979	31958	1.9	4.0E-62	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7071	19762	32826	1.84	4.0E-62	11421041	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase 2 (PRPS2), mRNA
7534	20204	33299	2.48	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
7534	20204	33300	2.48	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8071	20765	33894	1.06	4.0E-62	11429973	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1), mRNA
8745	21437	34584	4.97	4.0E-62	AB033089.1	NT	Homo sapiens mRNA for KIAA1263 protein, partial cds
10934	23614	36884	4.45	4.0E-62	Z78786.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA16D3
10934	23614	36885	4.45	4.0E-62	Z78786.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA16D3
11985	24533	37270	2.81	4.0E-62	11418086	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12560	24947	30984	1.34	4.0E-62	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12645	24942	30981	16.72	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12645	24942	30982	16.72	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12692	24976	30983	2.72	4.0E-62	11430480	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
72	12899	25535	0.89	3.0E-62	4557794	NT	Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2) mRNA
3041	15807	28452	1.11	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3041	15807	28453	1.11	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3686	16439	28081	6.41	3.0E-62	X52858.1	NT	Human cyclophilin-related processed pseudogene

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8438	21130	34287	5.82	3.0E-62	A1632733.1	EST_HUMAN	wa33f04.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2299903 3' similar to contains THR12
1209	13980	28627	2.36	2.0E-62	AL163284.2	NT	THR repetitive element ;
8673	21365	34511	4.89	2.0E-62	BF329911.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
8673	21365	34512	4.89	2.0E-62	BF329911.1	EST_HUMAN	RCO-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
10072	22720		3.8	2.0E-62	AF224669.1	NT	RCO-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
11698	24284		4.81	2.0E-62	BF330676.1	EST_HUMAN	Homo sapiens mitomycinase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
1021	13781	26443	1.87	1.0E-62	AF248540.1	NT	(UBE2D3) genes, complete cds
1536	14283	26970	11.01	1.0E-62	L78810.1	NT	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
1791	14531	27239	1.04	1.0E-62	AA625207.1	EST_HUMAN	Homo sapiens intersecin 2 (SH3D1B) mRNA, complete cds
2815	15681	28328	0.99	1.0E-62	AL039044.1	EST_HUMAN	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4317	17066		0.71	1.0E-62	BE166413.1	EST_HUMAN	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4490	17228	29855	1.57	1.0E-62	8923201	NT	af70e11.1 Soares_Nhl-IMPu_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1
5071	17790	30405	0.9	1.0E-62	L23503.1	NT	CE03453 ;
6196	19872	31948	0.86	1.0E-62	U52111.2	NT	DKFZp566F104_r1 586 (synonym: hfkid2) Homo sapiens cDNA clone DKFZp566F104 5'
7034	19726	32782	0.91	1.0E-62	AA490060.1	EST_HUMAN	QV0-HT0493-280200-135-h12 HT0493 Homo sapiens cDNA
7045	19736	32786	2.94	1.0E-62	AA722878.1	EST_HUMAN	Homo sapiens hypodermal protein FLJ20212 (FLJ20212), mRNA
7045	19736	32787	2.94	1.0E-62	AA722878.1	EST_HUMAN	Human glucagon-like peptide-1 receptor (GLP-1) mRNA, complete cds
8655	21347	34491	0.5	1.0E-62	AA280050.1	EST_HUMAN	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
8656	21647	34797	2.13	1.0E-62	7682289	NT	ab05c02.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:836906 3'
8656	21647	34796	2.13	1.0E-62	7682289	NT	zg89f10.s1 Soares_fetal_heart_NhlH19W Homo sapiens cDNA clone IMAGE:409771 3'
8699	21689	34838	2.02	1.0E-62	X15533.1	NT	zg89f10.s1 Soares_fetal_heart_NhlH19W Homo sapiens cDNA clone IMAGE:409771 3'
8699	21689	34839	2.02	1.0E-62	X15533.1	NT	zg89f10.s1 Soares_fetal_heart_NhlH19W Homo sapiens cDNA clone IMAGE:409771 3'
8457	22007	35177	3.54	1.0E-62	AA465170.1	EST_HUMAN	zs93e07.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:705060 5'
11339	24029	37333	2.01	1.0E-62	Z78698.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11866	24450	37792	1.52	1.0E-62	11424055	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12474	24838		2.25	1.0E-62	11418322	NT	H.sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
12673	24966	30990	2.99	1.0E-62	11430490	NT	H.sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
328	13130	25765	2.59	9.0E-63	AW816405.1	EST_HUMAN	aa33d08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 3'
2345	15068		1.53	9.0E-63	C18159.1	EST_HUMAN	H.sapiens flow-sorted chromosome 6 HindIII fragment, SC8pA14D8
							Homo sapiens exosome component Rrp46 (LOC55915), mRNA
							Homo sapiens cathetin EGF LAG sever-pass G-type receptor 1 (CELSR1), mRNA
							Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
							QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
							C18159 Human placenta cDNA (TFujwara) Homo sapiens cDNA clone GEN-558C10 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4020	16766	29395	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4020	16766	29396	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
5164	17895	37798	3.05	9.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
5379	18179	30869	1.63	9.0E-63	Y15096.1	NT	Homo sapiens mRNA for PKB kinase
7082	19772	32837	3.86	9.0E-63	11428985	NT	Homo sapiens nucleoporin 88kD (NUP88), mRNA
7724	20387	33501	0.91	9.0E-63	4885544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
8224	20918	34055	1.38	9.0E-63	11421160	NT	Homo sapiens Ras association (RalGDS/AF-6) domain family 2 (RASSF2), mRNA
10816	23499	36796	2.03	9.0E-63	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10816	23499	36737	2.03	9.0E-63	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
2343	15086	27803	1.32	8.0E-63	4557734	NT	Homo sapiens monoamine oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA
2373	15086	27834	2.08	8.0E-63	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3454	16210	28861	3.02	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
3454	16210	28862	3.02	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
4234	16975	29600	3.31	8.0E-63	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
908	13675		2.09	7.0E-63	AB72137.1	EST_HUMAN	nm55g11.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:2439908 3'
5255	18061		48.05	6.0E-63	AA420803.1	EST_HUMAN	nc63f02.f1 NCL_CGAP_P1 Homo sapiens cDNA clone IMAGE:745947 similar to gb:Y00361 60S
8773	21465	34612	1.97	5.0E-63	11528464	NT	RIBOSOMAL PROTEIN (HUMAN);
3315	16075	28726	0.84	4.0E-63	AL163278.2	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
3788	16540	29174	1.16	4.0E-63	AB014607.1	NT	Homo sapiens chromosome 21 segment HS21C078
3788	16540	29175	1.16	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6353	19123	32115	3.64	4.0E-63	AW750372.1	EST_HUMAN	Homo sapiens mRNA for KIAA0707 protein, partial cds
6353	19123	32116	3.64	4.0E-63	AW750372.1	EST_HUMAN	Homo sapiens mRNA for KIAA0707 protein, partial cds
11077	23747	37021	2.3	4.0E-63	AW134709.1	EST_HUMAN	CM3-BT0595-190100-072-409 BT0595 Homo sapiens cDNA
11077	23747	37022	2.3	4.0E-63	AW134709.1	EST_HUMAN	CM3-BT0595-190100-072-409 BT0595 Homo sapiens cDNA
11846	24430	37771	4.32	4.0E-63	AA362834.1	EST_HUMAN	UI-H-B11-abq-a-02-0-UJ.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
1928	14864	27377	2.82	3.0E-63	AB018260.1	NT	UI-H-B11-abq-a-02-0-UJ.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
2782	15487	28225	2.26	3.0E-63	J00310.1	NT	EST172607 Ovary II Homo sapiens cDNA 5' end similar to zinc finger protein family
2824	13967	26636	11.81	3.0E-63	6005963	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
6382	19151	32150	32.78	3.0E-63	11545810	NT	Human Met-RNA-i gene 1
9005	22258	35444	1.15	3.0E-63	BE876158.1	EST_HUMAN	Homo sapiens zinc finger protein 144 (ZNF144), mRNA
9805	22258	35445	1.15	3.0E-63	BE876158.1	EST_HUMAN	Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC63928), mRNA
186	12989	25639	1.09	2.0E-63	U07804.1	NT	601485668F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
							601485668F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
							Human DNA topoisomerase I mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
193	13006	25647	1.68	2.0E-63	4885226	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
485	13270		2.34	2.0E-63	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
807	13579	26244	5.57	2.0E-63	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
1559	14308	26994	1.43	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1559	14308	26995	1.43	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1760	14502	27203	1.1	2.0E-63	BE410739.1	EST_HUMAN	601301627F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE3636103 5'
3154	15917	28563	3.44	2.0E-63	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3278	16040	28690	2.02	2.0E-63	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
3885	16835	29274	3.74	2.0E-63	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4813	17544	30169	1	2.0E-63	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5099	17818	30435	0.96	2.0E-63	6812617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA
5181	25062	30505	1.25	2.0E-63	11419426	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
5794	18585	31512	2.96	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c06 FT0170 Homo sapiens cDNA
5794	18585	31513	2.96	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
6093	18871	31837	0.84	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6093	18871	31838	0.84	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6802	19365	32379	1.67	2.0E-63	U68059.1	NT	Human gamine T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV6S1A1T, TCRBV7S1A1N2T, TCRBV5S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV9S2A2PT, TCRBV7S2A1N4T, TCRBV13S9/13S>
6849	19411	32425	0.88	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6849	19411	32426	0.88	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6975	19456	32477	1.45	2.0E-63	8810365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
6975	19456	32478	1.45	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7678	20342	33454	0.87	2.0E-63	AB048844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
7713	20377	33490	0.58	2.0E-63	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
8431	21124	34282	3.98	2.0E-63	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
8952	21643	34791	1.35	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
8952	21643	34792	1.35	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9839	22490	35691	1.12	2.0E-63	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10547	23338	36577	6.43	2.0E-63	N78945.1	EST_HUMAN	zb18b05.s1 Soares_fetal_Jung_NbHL19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:U17206 40S RIBOSOMAL PROTEIN S4 (HUMAN);
10872	23363	36804	2.98	2.0E-63	AF099810.1	NT	Homo sapiens neurodin III-alpha gene, partial cds
10872	23363	36805	2.96	2.0E-63	AF099810.1	NT	Homo sapiens neurodin III-alpha gene, partial cds
12098	26177	30807	5.97	2.0E-63	11418185	NT	Homo sapiens acetylase 2, mitochondrial (AC02), mRNA
1502	14248	26934	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
1502	14248	26935	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4308	17047	29672	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4308	17047	29673	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
5288	18074	30703	0.8	1.0E-63	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
5683	18476	31394	1.4	1.0E-63	AW582268.1	EST_HUMAN	QV0-ST0215-060100-083-509 ST0215 Homo sapiens cDNA
6298	19071	32056	0.69	1.0E-63	AW451950.1	EST_HUMAN	UI-H-B13-att-H-02-Q-J1.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
6298	19071	32056	0.69	1.0E-63	AW451950.1	EST_HUMAN	UI-H-B13-att-H-02-Q-J1.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
8371	21084		2.68	1.0E-63	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12737	25286		4.04	1.0E-63	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
7768	20462	33586	4.36	9.0E-64	AI478186.1	EST_HUMAN	fm50b07.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2161525 3'
1024	13784		8.16	8.0E-64	BE280798.1	EST_HUMAN	601155232F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139038 5'
6046	18828	31792	3.88	8.0E-64	BE885765.1	EST_HUMAN	601508088F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910336 5'
11916	24478		7.34	8.0E-64	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
11970	24516		1.6	8.0E-64	T60851.1	EST_HUMAN	y695b02.J1 Stragene lung (#837210) Homo sapiens cDNA clone IMAGE:79179 5'
3520	16276		1.13	7.0E-64	BE394321.1	EST_HUMAN	601311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3633204 5'
4683	17417	30052	2.73	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
4683	17417	30053	2.73	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA
9933	22581	35778	3.43	7.0E-64	Y07848.1	NT	Homo sapiens EWS, gcr22, rrp22 and bam22 genes
1716	14459	27156	1.63	6.0E-64	AI651982.1	EST_HUMAN	wb51e07.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2306220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
1716	14459	27157	1.63	6.0E-64	AI651982.1	EST_HUMAN	wb51e07.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2306220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
3120	15885	28524	4.39	6.0E-64	AW026445.1	EST_HUMAN	wv13e03.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
3120	15885	28525	4.39	6.0E-64	AW026445.1	EST_HUMAN	wv13e03.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
5534	18332	31237	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332	31238	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5555	18352	31261	4.08	6.0E-64	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5564	18361	31289	1.26	6.0E-64	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; actin receptor interacting protein 1 (KIAA0705), mRNA
5739	18531	31453	0.62	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
5739	18531	31454	0.62	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
7136	19823	32889	2.34	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
7136	19823	32890	2.34	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
9228	21905	35077	6.76	6.0E-64	11420555	NT	Homo sapiens acetyl-CoA synthetase (LOC55902), mRNA
9408	22068	35240	2.09	6.0E-64	AF274763.1	NT	Homo sapiens progressive ankylosis-like protein (ANK), mRNA, complete cds
9618	22271	35458	2.78	6.0E-64	S78475.1	NT	trkC (human, brain, mRNA, 2716 nt)
10669	23380	36800	6.01	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10669	23380	36801	6.01	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10941	15885	28524	1.84	6.0E-64	AW026445.1	EST_HUMAN	w13e03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
10941	15885	28525	1.84	6.0E-64	AW026445.1	EST_HUMAN	w13e03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
12116	24608	31089	4.97	6.0E-64	11528198	NT	Homo sapiens Interleukin 10 receptor, beta (IL10RB), mRNA
801	13573	26235	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
801	13573	26236	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1316	14084	26738	1.84	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1401	14148	26827	1.3	5.0E-64	L40833.1	NT	Homo sapiens phosphoglucosyltransferase-related protein (PGMRP) gene, complete cds
1401	14148	26828	1.3	5.0E-64	L40833.1	NT	Homo sapiens phosphoglucosyltransferase-related protein (PGMRP) gene, complete cds
1706	14449	27149	1.37	5.0E-64	U89358.1	NT	Human (3)mbit protein homolog mRNA, complete cds
2629	14210	26897	4.95	5.0E-64	7862205	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
2829	14210	26898	4.85	5.0E-64	7862205	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
3940	16690	28328	6.71	5.0E-64	AF017433.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
4085	16828	29455	1.05	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
7716	20380	33493	0.58	4.0E-64	BE794607.1	EST_HUMAN	601580382F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944397 5'
10716	23404	36844	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
10716	23404	36845	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
2195	14924	27058	5.41	3.0E-64	C18695.1	EST_HUMAN	C18695 Human placenta cDNA (Tfujwara) Homo sapiens cDNA clone GEN:569E02 5'
3249	16011	28662	0.89	3.0E-64	BE794381.1	EST_HUMAN	601580555F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
3436	16192	28841	2.22	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
3436	16192	28842	2.22	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
5990	18771	31734	1.21	3.0E-64	Z26273.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 28
6401	19170	32169	3.34	3.0E-64	BF370000.1	EST_HUMAN	RC8-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
8365	21058	34198	1.93	3.0E-64	AF246953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8366	21058	34189	1.93	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8393	21086	34220	3.69	3.0E-64	BE206521.1	EST_HUMAN	b672h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
8393	21086	34221	3.69	3.0E-64	BE206521.1	EST_HUMAN	b672h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
9327	21994	35165	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9327	21994	35166	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9414	22092	35263	0.8	3.0E-64	AW977384.1	EST_HUMAN	EST389493 MAGE resequences, MAGO Homo sapiens cDNA
9414	22092	35264	0.8	3.0E-64	AW977384.1	EST_HUMAN	EST389493 MAGE resequences, MAGO Homo sapiens cDNA
11691	24286	37608	1.8	3.0E-64	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
1066	13824	26484	1.64	2.0E-64	AA609940.1	EST_HUMAN	af06a08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1031151 3'
1377	14125	26799	1.54	2.0E-64	4757701	NT	Homo sapiens eIF4E-like cap-binding protein (4EHP) mRNA
2528	15244		1.82	2.0E-64	A1927030.1	EST_HUMAN	wo87b01.x1 NCI_CGAP_Kid111 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contalns element L1 repetitive element;
2533	15248	27987	2.05	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2533	15248	27988	2.05	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
3137	15901	28546	1.42	2.0E-64	4504068	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
3767	16519	29157	0.78	2.0E-64	AW698145.1	EST_HUMAN	EST370215 MAGE resequences, MAGO Homo sapiens cDNA
3767	16519	29158	0.78	2.0E-64	AW698145.1	EST_HUMAN	EST370215 MAGE resequences, MAGO Homo sapiens cDNA
5916	16701	31655	2.78	2.0E-64	AU124387.1	EST_HUMAN	AU124387 NT2RM2 Homo sapiens cDNA clone NT2RM2002113 5'
6148	18925	31895	1.47	2.0E-64	AF113708.1	NT	Homo sapiens angiocidin 4 (ANG4) mRNA, partial cds
6394	19163	32164	5.21	2.0E-64	BF668537.1	EST_HUMAN	602123474F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4280395 5'
6497	19283	32284	1.16	2.0E-64	A1078387.1	EST_HUMAN	cz26803.x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1076717 3'
6601	19364	32378	4.54	2.0E-64	MT77185.1	NT	H.sapiens dopamine receptor D5 pseudogene 1, partial cds
7707	20371	33494	0.7	2.0E-64	11431054	NT	Homo sapiens ataxin 2-binding protein 1 (A2BP1), mRNA
7732	20395	33510	0.65	2.0E-64	AW606785.1	EST_HUMAN	QV1-HT0413-010200-059-h12 HT0413 Homo sapiens cDNA
8567	21259	34395	0.73	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plestin) (LCP1), mRNA
8567	21259	34396	0.73	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plestin) (LCP1), mRNA
9038	21728	34882	0.56	2.0E-64	11423508	NT	Homo sapiens hypothetical protein SBB167 (LOC57115), mRNA
9130	21818	34984	0.87	2.0E-64	AU132570.1	EST_HUMAN	AU132570 NT2RP4 Homo sapiens cDNA clone NT2RP400109 5'
9679	22529	35726	0.59	2.0E-64	T06397.1	EST_HUMAN	EST04286 Fetal brain, Stratiagene (cat#936206) Homo sapiens cDNA clone HFBDS88
9679	22529	35727	0.59	2.0E-64	T06397.1	EST_HUMAN	EST04286 Fetal brain, Stratiagene (cat#936206) Homo sapiens cDNA clone HFBDS88
10662	23353	36592	3.72	2.0E-64	BF528114.1	EST_HUMAN	602042882F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4180556 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10981	23666	36909	5.97	2.0E-64	A1922911.1	EST_HUMAN	wn81b08.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
10981	23656	36910	5.97	2.0E-64	A1922911.1	EST_HUMAN	wn81b08.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
11198	23863	37149	1.76	2.0E-64	AW864773.1	EST_HUMAN	PM2-SN0018-220300-002-e12 SN0018 Homo sapiens cDNA
12039	24562	31114	1.65	2.0E-64	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
12468	24834		4.85	2.0E-64	H55162.1	EST_HUMAN	CHR220101 Chromosome 22 exon Homo sapiens cDNA clone C22_132 5'
251	13060	26698	2.94	1.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1772	14514	27214	10.45	1.0E-64	A1929419.1	EST_HUMAN	au00c01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to gb:L21898 cds1 PROTHYMOSIN ALPHA (HUMAN); contains element MSR1 repetitive element ;
3010	15776	28426	0.79	1.0E-64	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
3501	16257	28912	5.74	1.0E-64	AF198779.1	NT	Homo sapiens transcription factor (GHM enhancer 3, JM11 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds, and L-type calcium channel α 2
3572	16327	28974	1.27	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3572	16327	28976	1.27	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3881	16831	28270	0.79	1.0E-64	8922829	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
9084	22812	35816	1.07	1.0E-64	AA042975.1	EST_HUMAN	z65308.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486667 3'
12012	24545		1.81	1.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C049
2274	15000	27738	1.53	9.0E-65	X89211.1	NT	H.sapiens DNA for endogenous retroviral like element
2274	15000	27739	1.53	9.0E-65	X89211.1	NT	H.sapiens DNA for endogenous retroviral like element
11523	24123		10.43	9.0E-65	BF330876.1	EST_HUMAN	QV4-BT0257-081189-017-e03 BT0257 Homo sapiens cDNA
11493	24094	37405	10.87	8.0E-65	A1929244.1	EST_HUMAN	au03h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005 3' similar to SW:RL21_HUMAN P46778 60S RIBOSOMAL PROTEIN L21.;
10055	22703	35921	2.01	7.0E-65	BE081653.1	EST_HUMAN	QV2-BT0635-240400-162-c02 BT0635 Homo sapiens cDNA
11807	24397	37731	1.27	7.0E-65	Z21378.1	EST_HUMAN	HSAAAEAWO TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam tes349 (b)
1034	13784	26454	3.59	6.0E-65	AV721898.1	EST_HUMAN	AV721898 HTB Homo sapiens cDNA clone HTBBZC06 5'
1915	14852		4.73	6.0E-65	AA550920.1	EST_HUMAN	ri06d10.s1 NCI_CGAP_P111 Homo sapiens cDNA clone IMAGE:898379 similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);
6475	19242	32242	0.62	6.0E-65	AA503892.1	EST_HUMAN	nh37b07.s1 NCI_CGAP_P16 Homo sapiens cDNA clone IMAGE:954517
8945	21337	34481	2.3	6.0E-65	AW063252.1	EST_HUMAN	xc07b09.x1 NCI_CGAP_Co21 Homo sapiens cDNA clone IMAGE:2583545 3' similar to TR:Q63306 Q63306 LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORFs. ; contains L1 b2 L1 repetitive element ;
8909	21600	34742	3.46	6.0E-65	AA427878.1	EST_HUMAN	zw53b06.s1 Soares_fetal_fetus_Nb2HIF8_9w Homo sapiens cDNA clone IMAGE:773747 3'
8909	21600	34743	3.46	6.0E-65	AA427878.1	EST_HUMAN	zw53b06.s1 Soares_fetal_fetus_Nb2HIF8_9w Homo sapiens cDNA clone IMAGE:773747 3'
8973	21663	34814	0.81	6.0E-65	A1065314.1	EST_HUMAN	qf18h05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8973	21683	34815	0.81	6.0E-65	A1085314.1	EST_HUMAN	qf18h05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425 3'
10783	23466	36707	3.82	6.0E-65	BE567816.1	EST_HUMAN	601340485F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682677 5'
10968	23644	36897	1.52	6.0E-65	BF340825.1	EST_HUMAN	602037721F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4185677 5'
11480	24081	37392	1.86	6.0E-65	AL103210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1331	14080	26754	1.6	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
1331	14080	26755	1.6	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
2151	14881	27615	1.6	5.0E-65	AB033768.1	NT	Homo sapiens HPAD-colony10 mRNA for peptidylarginine deiminase type I, complete cds
3260	16012	28663	1.6	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3250	16012	28664	1.6	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10364	23011	36226	1.01	5.0E-65	AF008608.1	NT	Multiple sclerosis associated retrovirus polyprotein (pc) mRNA, partial cds
188	13001	25642	2.02	4.0E-65	AL120419.1	EST_HUMAN	DKFZp761G108_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
728	13502	26156	1.37	4.0E-65	A1266468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8tc0weeks_2NbHP8tc9W Homo sapiens cDNA clone IMAGE:1891800 3'
728	13502	26157	1.37	4.0E-65	A1266468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8tc0weeks_2NbHP8tc9W Homo sapiens cDNA clone IMAGE:1891800 3'
1058	13814	26475	1.38	4.0E-65	4828735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1469	14216	26903	11.06	4.0E-65	4506636	NT	Homo sapiens ribosomal protein L34 (RPL34) mRNA
2336	15060	27796	0.91	4.0E-65	BE221469.1	EST_HUMAN	hu25e04.x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171102 3'
2336	15060	27797	0.91	4.0E-65	BE221469.1	EST_HUMAN	hu25e04.x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171102 3'
3930	16680	29321	1.08	4.0E-65	AW993185.1	EST_HUMAN	RC2-BN0033-180200-013-s03 BN0033 Homo sapiens cDNA
5124	17842	30459	1.03	4.0E-65	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI7), mRNA
5124	17842	30460	1.03	4.0E-65	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI7), mRNA
6063	18842	31804	4.6	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6063	18842	31805	4.6	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6063	19676	32723	0.55	4.0E-65	AY008372.1	NT	Homo sapiens oxygen binding protein-related protein 3 (ORP3) mRNA, complete cds
7017	19709	32785	0.97	4.0E-65	M19879.1	NT	Human diaphylin 27 gene, exons 10 and 11, and L1 and Alu repeats
7119	19807	32873	2.52	4.0E-65	11545780	NT	Homo sapiens hypothetical protein FLJ22067 (FLJ22067), mRNA
7448	20124	33215	0.97	4.0E-65	U40372.1	NT	Human 3',5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7448	20124	33216	0.97	4.0E-65	U40372.1	NT	Human 3',5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7741	20437	33558	1.86	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
7741	20437	33559	1.86	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
9044	21734	34888	0.63	4.0E-65	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10480	23126		2.04	4.0E-65	AJ277548.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10874	23554	36801	1.97	4.0E-65	AV738764.1	EST_HUMAN	AV738764 CB Homo sapiens cDNA clone CBCC8E05 5'
11041	23712	36882	3.68	4.0E-65	AF119846.1	NT	Homo sapiens PRO1474 mRNA, complete cds
12319	13814	28475	1.46	4.0E-65	4828735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1210	15522		3.8	3.0E-65	X78932.1	NT	H. sapiens HZF9 mRNA for zinc finger protein
1551	14297	26984	0.91	3.0E-65	4504628	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1816	14556	27271	0.93	3.0E-65	A1000602.1	EST_HUMAN	ov23f03.a1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
3271	16032	28683	0.75	3.0E-65	4504950	NT	MSR1 repetitive element ; Homo sapiens laminin, beta 1 (LAMB1), mRNA
3709	16462	29101	0.99	3.0E-65	A1000602.1	EST_HUMAN	ov23f03.a1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
4802	17337	29966	1.91	3.0E-65	6812385	NT	MSR1 repetitive element ;
9689	22817	35820	1.44	3.0E-65	BE787968.1	EST_HUMAN	Homo sapiens rab6 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA
11363	23174	36402	11.12	3.0E-65	AA430006.1	EST_HUMAN	601479688F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882405 5'
3399	16157	28809	5.75	2.0E-65	BF680294.1	EST_HUMAN	zw65a06.l1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:781042 5'
8442	19210		2.46	2.0E-65	BE263373.1	EST_HUMAN	602165062F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295966 5'
7032	19724	32780	32.07	2.0E-65	BF576822.1	EST_HUMAN	601190883F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3634741 5'
8744	21436	34582	1.06	2.0E-65	AK024463.1	NT	602134359F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289295 5'
8744	21436	34583	1.06	2.0E-65	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
10552	23248	36485	2	2.0E-65	11419247	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
11989	24515		3.65	2.0E-65	AA307904.1	EST_HUMAN	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA
12431	25156		2.2	2.0E-65	BF246086.1	EST_HUMAN	EST178755 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to similar to endogenous retrovirus
89	12915		1.59	1.0E-65	BF125544.1	EST_HUMAN	601854033F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073769 5'
526	13310	25943	1.44	1.0E-65	7667495	NT	601763488F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026501 5'
2033	14768	27468	1.29	1.0E-65	AB040848.1	NT	Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX6), mRNA
3365	16124	28781	0.81	1.0E-65	BE466881.1	EST_HUMAN	Homo sapiens mRNA for KIAA1613 protein, partial cds
3680	16728	29362	2.47	1.0E-65	4504082	NT	h224a09.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:3208886 3'
3980	16728	29363	2.47	1.0E-65	4504082	NT	Homo sapiens glycican 4 (GPC4) mRNA
4183	16923	29551	2.01	1.0E-65	AW029340.1	EST_HUMAN	Homo sapiens glycican 4 (GPC4) mRNA
4183	16923	29552	2.01	1.0E-65	AW029340.1	EST_HUMAN	wp09c09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
8152	20846	33977	2.04	1.0E-65	AW820481.1	EST_HUMAN	wp09c09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
8152	20846	33978	2.04	1.0E-65	AW820481.1	EST_HUMAN	QV2-ST0298-140200-042-f12 ST0298 Homo sapiens cDNA
							QV2-ST0298-140200-042-f12 ST0298 Homo sapiens cDNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8178	20872	34006	0.56	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8178	20872	34007	0.56	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8218	20912	34047	2.03	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYRO1 Homo sapiens cDNA clone THYRO1000356 5'
8218	20912	34048	2.03	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYRO1 Homo sapiens cDNA clone THYRO1000356 5'
8739	21431	34576	1.21	1.0E-65	BF698707.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
8918	21609	34752	2.62	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
8918	21609	34753	2.62	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
8929	21620		2.36	1.0E-65	11431994	NT	Homo sapiens insulin 1,4,5-triphosphatase receptor, type 1 (ITPR1), mRNA
9007	21687	34848	1.96	1.0E-65	7662227	NT	Homo sapiens KIAA0656 gene product (KIAA0656), mRNA
9377	21952	35124	5.05	1.0E-65	AI191716.1	EST_HUMAN	Homo sapiens KIAA0656 gene product (KIAA0656), mRNA
9785	22436	35643	1.11	1.0E-65	AU153793.1	EST_HUMAN	qds6a02.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733450 3' similar to gb:M29581 ZINC
10200	22848	36064	0.6	1.0E-65	AA06959.1	EST_HUMAN	qds6a02.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733450 3' similar to gb:M29581 ZINC
10470	23118	36346	1.01	1.0E-65	AB037832.1	NT	FINGER PROTEIN 8 (HUMAN); contains MER19.11 MER19 repetitive element;
10546	23242	36477	1.58	1.0E-65	M26167.1	NT	FINGER PROTEIN 8 (HUMAN); contains MER19.11 MER19 repetitive element;
10676	23367	36610	8.53	1.0E-65	BF698707.1	EST_HUMAN	AU163703 NT2RP3 Homo sapiens cDNA clone NT2RP3004016 3'
11075	23745	37018	2.24	1.0E-65	BF698707.1	EST_HUMAN	AU163703 NT2RP3 Homo sapiens cDNA clone NT2RP3004016 3'
11172	23839	37122	2.28	1.0E-65	AI621017.1	EST_HUMAN	z775a04.r1 Soares_pituitary_gland_N3HPG Homo sapiens cDNA clone IMAGE:382734 5'
12013	24546		2.65	1.0E-65	11418041	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
12108	24604	31086	5.82	1.0E-65	11418322	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
12519	24867	25531	1.97	1.0E-65	11418248	NT	Homo sapiens ribosomal protein L7a (RPL7A) mRNA
88	12897	25532	1.31	9.0E-66	AL160311.1	NT	Homo sapiens ribosomal protein L7a (RPL7A) mRNA
89	12897	25532	1.31	9.0E-66	AL160311.1	NT	Homo sapiens ribosomal protein L7a (RPL7A) mRNA
1332	14081	26756	1.88	9.0E-66	5031980	NT	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
1332	14081	26757	1.88	9.0E-66	5031980	NT	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
1467	14214		5.51	9.0E-66	M87298.1	NT	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
4842	17376	30009	0.77	8.0E-66	AA424304.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
11319	24010		2.99	7.0E-66	BE064410.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
4332	17071	29698		6.0E-66	AI924653.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
		29699		6.0E-66	AI924653.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4332	17071	29700	1.15	6.0E-66	A1924653.1	EST_HUMAN	wn57h07.x1 NCL_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP.F15G9.4A
8333	21028		0.48	6.0E-66	BE178563.1	EST_HUMAN	CE18595 ;
11108	23778	37052	3.14	6.0E-66	X69181.1	NT	PM2-HT0604-030300-001-b08 HT0804 Homo sapiens cDNA
1346	14094	26769	1.45	5.0E-66	BE064410.1	EST_HUMAN	H.sapiens mRNA for ribosomal protein L31
5046	17765	30382	0.74	5.0E-66	BE898644.1	EST_HUMAN	RC4-BT0311-141189-011-b06 BT0311 Homo sapiens cDNA
5046	17765	30383	0.74	5.0E-66	BE898644.1	EST_HUMAN	601681592F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3951791 5'
8194	21884	35028	16.11	5.0E-66		NT	601681592F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3951791 5'
773	13545	26206	0.98	4.0E-66		NT	Homo sapiens thyroid hormone receptor binding protein (AIB3), mRNA
1728	14471	27170	1.14	4.0E-66	AW897798.1	EST_HUMAN	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
2278	15004	27744	1.83	4.0E-66	X89211.1	NT	RC1-NN0063-100500-022-e02 NN0063 Homo sapiens cDNA
2477	15185		3.02	4.0E-66	AJ223364.1	NT	H.sapiens DNA for endogenous retroviral like element
4733	17465		10.89	4.0E-66	9635487	NT	Homo sapiens germ-line DNA upstream of Jkappa locus
5463	18262	31153	3.73	4.0E-66		NT	Human endogenous retrovirus, complete genome
5857	18452	31368	1.15	4.0E-66	AW939119.1	EST_HUMAN	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
6757	17928	30561	4.83	4.0E-66	AW965473.1	EST_HUMAN	QV1-DT0069-110200-067-g10 DT0069 Homo sapiens cDNA
7031	19723	32779	7.93	4.0E-66	U78168.1	NT	EST377548 IMAGE resequences, MAGI Homo sapiens cDNA
7529	18262	31153	0.72	4.0E-66	11428643	NT	Homo sapiens cAMP-regulated guanine nucleotide exchange factor 1 (cAMP-GEF1) mRNA, complete cds
7976	20571	33784	5.63	4.0E-66	11421638	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
8034	20729	33862	0.73	4.0E-66	X57147.1	NT	Homo sapiens hypothetical protein FLJ20116 (FLJ20116), mRNA
10556	23252	36489	1.97	4.0E-66	BF507463.1	EST_HUMAN	Homo sapiens hypothetical protein PHE.1 (ERV9)
11351	24041	37344	1.28	4.0E-66	AB023215.1	NT	Human endogenous retrovirus PHE.1 (ERV9)
1407	14154	26835	10.96	3.0E-66	4502098	NT	U1H-BW1-arr-a-10-O-U1.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070747 3'
1407	14154	26836	10.96	3.0E-66	4502098	NT	Homo sapiens mRNA for KIAA0988 protein, partial cds
1975	14711	27429	1.16	3.0E-66	N55323.1	EST_HUMAN	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1975	14711	27430	1.16	3.0E-66	N55323.1	EST_HUMAN	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
							yz27g12.1r1 Soares_multiple_sclerosis_2NblHMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2 [2] PIR:B56912 ;
							yz27g12.1r1 Soares_multiple_sclerosis_2NblHMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2 [2] PIR:B56912 ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1975	14711	27431	1.16	3.0E-06	N55323.1	EST_HUMAN	y27g12.1 Soares_multiple_sclerosis_2NblHMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1H2B.2 [2] PR:B56612;
2711	15418	28155	3.54	3.0E-06	11141880	NT	Homo sapiens TGF(beta)-induced transcription factor 2 (TGIF2), mRNA
3115	15880	28520	6.3	3.0E-06	7602223	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
5380	18180	30870	1.14	3.0E-06	AB020699.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds
5490	18289	31185	0.73	3.0E-06	M13976.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
5886	18479	31397	1.92	3.0E-06	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5886	18479	31398	1.92	3.0E-06	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
9425	22103	35275	0.62	3.0E-06	AK024453.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
9610	22272	35459	0.52	3.0E-06	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9973	22821	35828	0.8	3.0E-06	7019480	NT	Homo sapiens protocadherin beta 1 (PCDH-beta1), mRNA
10420	23066	36287	0.97	3.0E-06	AF155659.1	NT	Homo sapiens myoblast fusion cofactor biosynthesis protein E (MCBPE), mRNA, complete cds
11494	24085	37406	8.16	3.0E-06	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
11806	24396	37730	1.57	3.0E-06	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
50	12879	25505	2.15	2.0E-06	7657334	NT	Homo sapiens Missiphen/NIK-related kinase (MINK), mRNA
50	12879	25506	2.15	2.0E-06	7657334	NT	Homo sapiens Missiphen/NIK-related kinase (MINK), mRNA
413	12824	25437	1.76	2.0E-06	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORCSL) mRNA, and translated products
413	12824	25438	1.76	2.0E-06	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORCSL) mRNA, and translated products
1819	14558	27272	2.05	2.0E-06	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
3510	16266	28920	0.77	2.0E-06	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3747	16500	29134	0.68	2.0E-06	AL117233.1	NT	Novel human gene mapping to chromosome 1
4044	16789	29417	0.8	2.0E-06	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
4607	17342	29673	9.48	2.0E-06	AL133267.2	NT	Homo sapiens HLA-B gene for human leukocyte antigen B
4607	17342	29674	9.48	2.0E-06	AJ133267.2	NT	Homo sapiens HLA-B gene for human leukocyte antigen B
5726	18518	31439	1.3	2.0E-06	AW196854.1	EST_HUMAN	EST380830 IMAGE resequences, MAGJ Homo sapiens cDNA
5726	18518	31440	1.3	2.0E-06	AW196854.1	EST_HUMAN	EST380830 IMAGE resequences, MAGJ Homo sapiens cDNA
8746	21438	34585	2.26	2.0E-06	N45480.1	EST_HUMAN	y59c02.1 Soares_multiple_sclerosis_2NblHMSP Homo sapiens cDNA clone IMAGE:277926 5'
12329	25370		2.37	2.0E-06	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
1678	14422		1.15	1.0E-06	BE887173.1	EST_HUMAN	801508378F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908931 5'
2895	15662	28309	1.36	1.0E-06	AV717817.1	EST_HUMAN	AV717817 DC8 Homo sapiens cDNA clone DC8ADC07 5'

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2895	15662	28310	1.36	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4352	15662	28309	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4352	15662	28310	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
5287	18102	30761	5.96	1.0E-66	BF673088.1	EST_HUMAN	602152008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4284151 5'
5692	18486	31406	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
5692	18486	31407	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
6839	19501	32526	1.57	1.0E-66	BF328623.1	EST_HUMAN	RCS-BN0193-010800-034-G06 BN0193 Homo sapiens cDNA
8357	21050	34189	1.19	1.0E-66	AA688958.1	EST_HUMAN	aa80e04.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:827282 3'
9326	21663	35184	0.84	1.0E-66	AA018828.1	EST_HUMAN	ze57e12.1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:363118 5'
10270	22818	36129	0.92	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10270	22918	36130	0.92	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10862	23542	36789	2.48	1.0E-66	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11509	24109	37422	1.8	1.0E-66	AW968744.1	EST_HUMAN	EST380820 MAGE resequences, MAGJ Homo sapiens cDNA
12113	24608		2.51	9.0E-67	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
371	13190	25841	1.52	7.0E-67	AW162232.1	EST_HUMAN	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
1361	14109	26784	2.89	7.0E-67	AA383410.1	EST_HUMAN	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
1547	14293	26979	1.38	7.0E-67	W85947.1	EST_HUMAN	EST98812 Testis 1 Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, cosmid ZK353
1547	14293	26980	1.38	7.0E-67	W85947.1	EST_HUMAN	zh56h05.r1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2026	14781	27439	2.06	7.0E-67	7657243	NT	zh56h05.r1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2026	14781	27490	2.06	7.0E-67	7657243	NT	Homo sapiens Inositol 1,3,4-trisphosphate 5/6 kinase (ITPK1), mRNA
2813	13186	25841	3.4	7.0E-67	AW162232.1	EST_HUMAN	Homo sapiens Inositol 1,3,4-trisphosphate 5/6 kinase (ITPK1), mRNA
5989	18770	31733	0.78	7.0E-67	10190695	NT	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104
6177	18954	31927	2.02	7.0E-67	11425572	NT	ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
6177	18954	31928	2.02	7.0E-67	11425572	NT	Homo sapiens zinc finger protein 304 (ZNF304), mRNA
6623	18385	32399	1.29	7.0E-67	4885084	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
7531	20201	33296	1	7.0E-67	11419212	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
7531	20201	33297	1	7.0E-67	11419212	NT	Homo sapiens A TPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/118KD) (ATP6N1A), mRNA
8222	20916	34052	0.59	7.0E-67	4557732	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8830	21522	34669	0.58	7.0E-67	10835044	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
							Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
							Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
							Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
							Homo sapiens retinaldehyde dehydrogenase 2 (RALDH2), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11266	23918		1.56	7.0E-67	11434579	NT	Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), mRNA
11677	24272	37594	6.37	7.0E-67	U82486.1	NT	Human cytochrome oxidase subunit VIa (COX6A1P) pseudogene, complete cds
11898	24465	37803	2.24	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
11898	24465	37804	2.24	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12355	24759	31061	1.58	7.0E-67	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
546	13329	25960	2.12	6.0E-67	X88968.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
778	13550	26211	0.92	6.0E-67	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
1250	13698	26396	1.29	6.0E-67	Y14320.1	NT	Homo sapiens PMP68 gene, exons 3, 4, 5, 6 & 7
3166	15929	28578	1.17	6.0E-67	4508434	NT	Homo sapiens retinoblastoma 1 (including osteosarcoma) (RB1) mRNA
3431	16187	28835	1.64	6.0E-67	4507932	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
3431	16187	28836	1.64	6.0E-67	4507932	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
4106	16849	29474	0.7	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4106	16849	29475	0.7	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4657	17391	30026	5.01	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4657	17391	30026	5.01	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
5101	17635		1.23	6.0E-67	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3215	15978	28629	1.91	5.0E-67	AF009690.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
10905	23585		1.68	5.0E-67	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA
1305	14054	26728	0.93	4.0E-67	R90819.1	EST_HUMAN	Yn02d11.1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:167253 5'
7920	20615	33743	0.82	4.0E-67	AI733032.1	EST_HUMAN	q26c05.x5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1493288 3' similar to SW:Z33A_HUMAN
8281	20975		1.24	4.0E-67	BF357321.1	EST_HUMAN	Q06730 ZINC FINGER PROTEIN 33A ;
10996	23669						RC0-HT0834-150900-028-g03 HT0834 Homo sapiens cDNA
2816	13396	26031	1.39	4.0E-67	AA714284.1	EST_HUMAN	mw08a01.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238472 3' similar to TR:O10385 O10385
3446	16202	28852	1.55	3.0E-67	AA333768.1	EST_HUMAN	PRO-POL-DUTPASE POLYPROTEIN ;
4646	17380	30012	0.98	3.0E-67	BE064410.1	EST_HUMAN	EST37803 Embryo, 9 week Homo sapiens cDNA 5' and
			2.87	3.0E-67	AW869199.1	EST_HUMAN	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA
8081	20775	33905	1.53	3.0E-67	BF106068.1	EST_HUMAN	MR3-SN0068-040500-008-601 SN0068 Homo sapiens cDNA
11224	23887		14.39	3.0E-67	AA827874.1	EST_HUMAN	hr81105.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
183	12996	25635	0.81	2.0E-67	BE348354.1	EST_HUMAN	Q61085 GTP-RHO BINDING PROTEIN 1 ;
825	13595	26265	7.3	2.0E-67	AW816405.1	EST_HUMAN	am18b07.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1641365 3'
1083	13841		1.75	2.0E-67	AF167460.1	NT	hw16g09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183136 3' similar to WP:F23H11.9
							CE06817 ;
							QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
							Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a, 2, 3, and 4

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1877	14614	27325	1.36	2.0E-67	BE303037.1	EST_HUMAN	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905978 5' similar to TR:094892 O94892 KIAA0798 PROTEIN.;
1877	14614	27326	1.36	2.0E-67	BE303037.1	EST_HUMAN	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905978 5' similar to TR:094892 O94892 KIAA0798 PROTEIN.;
2235	14963	27702	1.3	2.0E-67	11422946	NT	Homo sapiens hypothetical protein dJ482O23.2 (DJ482O23.2), mRNA
2235	14963	27703	1.3	2.0E-67	11422946	NT	Homo sapiens hypothetical protein dJ482O23.2 (DJ482O23.2), mRNA
2384	15105	27845	1.09	2.0E-67	AF309561.1	NT	Homo sapiens KRAB zinc finger protein ZFOR mRNA, complete cds
2432	15163	27887	1.28	2.0E-67	4758735	NT	Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
3460	16216	28870	3.8	2.0E-67	AA825755.1	EST_HUMAN	zu91g01.at Soares_testis_NIHT Homo sapiens cDNA clone IMAGE:745392 3'
3984	16732	29366	3.03	2.0E-67	AL163300.2	EST	Homo sapiens chromosome 21 segment HS21C100
5981	18762	31726	0.6	2.0E-67	AL049784.1	NT	Novel human gene mapping to chromosome 13
6034	18814	31774	5.54	2.0E-67	BF240758.1	EST_HUMAN	601875351F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4091893 5'
6203	18978	31968	2.46	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6203	18978	31967	2.46	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6545	19310	32315	0.76	2.0E-67	AL120542.1	EST_HUMAN	DKFZp761A229_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A229 5'
8456	21148	34280	0.82	2.0E-67	AA334608.1	EST_HUMAN	EST39850 Embryo, 9 week Homo sapiens cDNA 5' and similar to cerebellin
8456	21148	34291	0.82	2.0E-67	AA334608.1	EST_HUMAN	EST39850 Embryo, 9 week Homo sapiens cDNA 5' and similar to cerebellin
8895	21566	34724	1.21	2.0E-67	AW602635.1	EST_HUMAN	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA
8895	21566	34725	1.21	2.0E-67	AW602635.1	EST_HUMAN	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA
9486	22076	35246	0.83	2.0E-67	AV731333.1	EST_HUMAN	AV731333 HTF Homo sapiens cDNA clone HTFARD03 5'
9608	22261	35447	0.97	2.0E-67	AW283624.1	EST_HUMAN	U1H-B12-shn-e-10-0-UI.at NCI CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727283 3'
10970	23646	36889	3.72	2.0E-67	BF034485.1	EST_HUMAN	601455262F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3858975 5'
10988	25433		4.67	2.0E-67	11436448	NT	Homo sapiens KIAA0685 protein (KIAA0685), mRNA
11163	23668	37145	2.11	2.0E-67	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
11434	25201	30433	1.86	2.0E-67	BF377169.1	EST_HUMAN	PM2-TN0103-040900-001-c02 TN0103 Homo sapiens cDNA
12235	25231	30819	1.36	2.0E-67		NT	Homo sapiens thyroid autoantigen 70KD (Ku antigen) (G22P-1), mRNA
12527	24874	31018	2.05	2.0E-67	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
246	13055	25695	9.34	1.0E-67	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistant-II, Alzheimer disease) (APP), mRNA
692	13467	26114	1.01	1.0E-67	AA702784.1	EST_HUMAN	z90b04.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:446015 3'
11846	24429	37770	8.58	1.0E-67	A1654867.1	EST_HUMAN	wb55c12.x1 NCI CGAP_GC8 Homo sapiens cDNA clone IMAGE:2310550 3'
2174	14903	27636	2.13	8.0E-68	BE970732.1	EST_HUMAN	601449558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3852254 5'
3861	16601	29238	4.96	8.0E-68	AA209456.1	EST_HUMAN	z982h10.r1 Stragene INT neuron (#937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW:SAV_SULAC Q07590 SAV PROTEIN.;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF/SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3851	16001	29239	4.96	8.0E-68	AA209456.1	EST_HUMAN	zq82h10.11 Stratiogene hNT neuron (#37233) Homo sapiens cDNA clone IMAGE:848163 5' similar to SW:SAV_SULAC Q07590 SAV PROTEIN. ;
8000	20995	33822	0.55	7.0E-68	AI810505.1	EST_HUMAN	w88e03.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:2312860 3'
7737	20402	33518	0.56	6.0E-68	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
10347	22994	36213	2.47	6.0E-68	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
11097	23767	37042	1.61	6.0E-68	AF133901.1	NT	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
12529	24875		1.78	6.0E-68	BE612554.1	EST_HUMAN	601452067F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855761 5'
12772	25026	30963	1.4	6.0E-68	BF310875.1	EST_HUMAN	601894635F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124144 5'
800	13572	26233	5.05	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
800	13572	26234	5.05	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
2793	15488	28228	1.36	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3144	15908	28553	3.23	5.0E-68	AB037852.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
4457	17193	29819	0.73	5.0E-68	AL157645.1	EST_HUMAN	DKFZp547D207.1 547 (synonym: hfor1) Homo sapiens cDNA clone DKFZp547D207 5'
8627	19389	32402	0.61	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rab33)-like 1 (RAB3IL1), mRNA
8627	19389	32403	0.61	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rab33)-like 1 (RAB3IL1), mRNA
4918	17648		9.55	4.0E-68	P04406	SWISSPROT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
5098	17817	30434	0.87	4.0E-68	7549804	NT	Homo sapiens deloninase, iodotyrosine, type II (DIO2), transcript variant 2, mRNA
5874	18661	31502	0.7	4.0E-68	AF157063.1	NT	Homo sapiens scdlin (SEDL) gene, exon 4
6875	19592	32829	6.51	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
6875	19592	32830	6.51	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
7582	20250	33356	0.66	4.0E-68	7881683	NT	Homo sapiens DKFZP688L0724 protein (DKFZP588L0724), mRNA
8938	21629	34771	6.05	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
8938	21629	34772	5.05	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9077	21766	34929	3.08	4.0E-68	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
10925	23605	36854	1.68	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
10925	23605	36855	1.88	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11115	23785	37061	1.28	4.0E-68	AB040948.1	NT	Homo sapiens mRNA for KIAA1515 protein, partial cds
11828	24412	37749	1.39	4.0E-68	AJ261760.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and XLaiphas (partial) genes
11884	24448	37796	12.15	4.0E-68	4758267	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
11884	24448	37790	12.15	4.0E-68	4758267	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
3653	16406	29045	5.37	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
9357	20428		5.82	3.0E-68	AI342323.1	EST_HUMAN	q38h02.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1950281 3' similar to contains THR12 THR repetitive element ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10399	23045	36261	1.23	3.0E-08	F28784.1	EST_HUMAN	HSPD18178 HM3 Homo sapiens cDNA clone s3000023D09
2865	17883		15.31	2.0E-08	D00522.1	NT	Cricetulus longicaudatus mRNA for EF-1 alpha, complete cds
4633	17398	30004	1.38	2.0E-08	AB008681.1	NT	Homo sapiens gene for actin receptor type IIB, complete cds
6778	19520		9.54	2.0E-08	R46088.1	EST_HUMAN	y338g04.s1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:34896 3'
6963	19445	32482	5.38	2.0E-08	BF035318.1	EST_HUMAN	601458514F1 NIH_MGC 08 Homo sapiens cDNA clone IMAGE:3862034 5'
7270	19854	33030	0.73	2.0E-08	BF338745.1	EST_HUMAN	IL3-CT0534-180900-273-A01 CT0534 Homo sapiens cDNA
8848	21539	34685	0.63	2.0E-08	O06859	SWISSPROT	FORMIN 4 (LIMB DEFORMITY PROTEIN)
10505	23151	36376	0.75	2.0E-08	N78488.1	EST_HUMAN	yz78d07.r1 Soares multiple sclerosis 2NbrHMSP Homo sapiens cDNA clone IMAGE:289165 5'
11210	23873	37160	1.66	2.0E-08	BF330594.1	EST_HUMAN	QV0-BT0074-130999-014-g04 BT0074 Homo sapiens cDNA
77	12903	25641	1	1.0E-08	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
289	13095	25737	13	1.0E-08	AW818405.1	EST_HUMAN	QV4-ST0234-181189-037-f05 ST0234 Homo sapiens cDNA
2249	14977	27715	1.03	1.0E-08	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2249	14977	27716	1.03	1.0E-08	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
3991	16739	29373	0.95	1.0E-08	BE298032.1	EST_HUMAN	601177002F1 NIH_MGC 17 Homo sapiens cDNA clone IMAGE:3532344 5'
4989	17694	30302	0.92	1.0E-08	AA897343.1	EST_HUMAN	sl47g12.s1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460518 3'
5239	18045	30674	1.37	1.0E-08	7682349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
7576	20245	33350	1	1.0E-08	11430718	NT	Homo sapiens centrin/SUMO-specific protease (SENPI), mRNA
10373	23019	36235	0.6	1.0E-08	AA429538.1	EST_HUMAN	zw74d02.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:781923 5'
10758	23441	36885	1.95	1.0E-08	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
10758	23441	36888	1.95	1.0E-08	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
10819	23502	36741	3.5	1.0E-08	L76416.1	NT	Homo sapiens MIF2 suppressor (HSMIT3) mRNA, complete cds
11148	23815	37098	1.71	1.0E-08	11433277	NT	Homo sapiens myosin IC (MYO1C), mRNA
11226	23889	37178	1.62	1.0E-08	AF043129.1	NT	Homo sapiens interleukin-7 receptor precursor (IL7R) gene, exons 7 and 8 and complete cds
11270	23931	37223	1.26	1.0E-08	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11270	23931	37224	1.26	1.0E-08	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11688	24261	37584	1.48	1.0E-08	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
11666	24261	37585	1.48	1.0E-08	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
12511	12903	25541	2.66	1.0E-08	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
12719	25322	30712	2.11	1.0E-08	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
19	12847	25460	1.16	9.0E-09	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
19	12847	25461	1.16	9.0E-09	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1006	13766	26426	1.41	9.0E-09	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1006	13766	26427	1.41	9.0E-09	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2275	15001	27740	1.15	9.0E-09	4788279	NT	Homo sapiens EphA4 (EPHA4) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2275	15001	27741	1.15	9.0E-69	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4109	16852	29479	0.71	9.0E-69	4757887	NT	Homo sapiens v-rat murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
10805	23488		6.5	9.0E-69	AU117241.1	EST_HUMAN	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000968 5'
3381	16140		1.09	8.0E-69	AJ237744.1	NT	Homo sapiens RIBIIR gene (partial), exon 12
6259	19033	32008	6.49	7.0E-69	9968912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
7762	20458	33581	9.09	6.0E-69	A192764.1	EST_HUMAN	q62h01.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gbL11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);
7762	20458	33582	9.09	6.0E-69	A192764.1	EST_HUMAN	q62h01.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gbL11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);
8873	21584	34709	1.01	5.0E-69	AA826039.1	EST_HUMAN	gbL11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);
507	13291		1.76	4.0E-69	A1873630.1	EST_HUMAN	cd60a03.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1372300 3'
5674	25073	31384	1.42	4.0E-69	BE561063.1	EST_HUMAN	wm28h11.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437125 3'
5763	18545	31487	5.28	4.0E-69	A1764973.1	EST_HUMAN	601344705F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677641 5'
6531	19297	32301	2.71	4.0E-69	4557732	NT	wf57006.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384818 3' similar to TR-O55137 O55137 ACYL-COA THIOESTERASE ;
6531	19297	32302	2.71	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8812	21604	34651	0.52	4.0E-69	AU119634.1	EST_HUMAN	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
377	13202	25848	3.89	3.0E-69	BE258012.1	EST_HUMAN	AU119634 HEMBA1 Homo sapiens cDNA clone HEMBA1006283 5'
598	13376	26006	2.32	3.0E-69	AF221712.1	NT	601110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 5'
							Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
1548	14284		3.19	3.0E-69	T80514.1	EST_HUMAN	yd08a02.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:24880 5' similar to SP-A48836 A48836 SPEGF III=EGF REPEAT-CONTAINING FIBROPELIN-LIKE PROTEIN - SEA URCHIN ;
5183	17894	37797	3.64	3.0E-69	11418185	NT	Homo sapiens acritase 2, mitochondrial (ACO2), mRNA
6705	19920		0.67	3.0E-69	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
6759	17928	30563	0.74	3.0E-69	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
7272	19956	33032	0.68	3.0E-69	AF085703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7320	20003	33082	1.83	3.0E-69	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurjungin (CTNND2) mRNA, partial cds
7451	20127	33219	8.32	3.0E-69	AF268075.1	NT	Homo sapiens TRAF8-binding protein TBBP mRNA, complete cds
8270	20964	34106	0.88	3.0E-69	AW138646.1	EST_HUMAN	Homo sapiens UI-H-B11-acw-g-01-0-UI st NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715840 3'
8666	21358		0.65	3.0E-69	AA376399.1	EST_HUMAN	EST98807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
9313	21980	35152	1.01	3.0E-69	X13223.1	NT	H.sapiens mRNA for N-acetylglucosamide-(beta 1-4)-galactosyltransferase

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9433	22111	35286	2.03	3.0E-69	X08233.1	NT	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF)-related protein
9729	22380	35582	0.75	3.0E-69	5730036	NT	Homo sapiens SEC10 (S. cerevisiae)-like 1 (SEC10L1), mRNA
10538	23235	36468	1.44	3.0E-69	11432120	NT	Homo sapiens ribosomal protein S15a (RPS15A), mRNA
10745	23432		7.81	3.0E-69	AA376369.1	EST_HUMAN	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
12024	24532		5.17	3.0E-69	11419157	NT	Homo sapiens HGC8.2 protein (HGC8.2), mRNA
126	13180	25827	1.94	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
126	13180	25828	1.84	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
395	13180	25827	10.33	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
395	13180	25828	10.33	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
1878	14615	27327	2.08	2.0E-69	BE257857.1	EST_HUMAN	601109444F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350074 5'
2848	15616		3.16	2.0E-69	AA431157.1	EST_HUMAN	zw71g02.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:791682 5'
8452	21144	34284	1.08	2.0E-69	AA114270.1	EST_HUMAN	zm28g01.r1 Stratagene pancreas (#837208) Homo sapiens cDNA clone IMAGE:527088 5'
1698	14441	27139	1.98	1.0E-69	AF053788.1	NT	Rattus norvegicus brain specific contactin-binding protein CBP80 mRNA, partial cds
4962	17687		0.74	1.0E-69	BE409084.1	EST_HUMAN	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'
5959	18741	31700	0.87	1.0E-69	BE902501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
5959	18741	31701	0.87	1.0E-69	BE902501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
6508	19273	32274	4.37	1.0E-69	AW363969.1	EST_HUMAN	QV0-TT0010-031199-045-c07 TT0010 Homo sapiens cDNA
6721	19636	32679	1.28	1.0E-69	7682263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6721	19636	32680	1.28	1.0E-69	7682263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6737	19571	32603	3.01	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6737	19571	32604	3.01	1.0E-69	AB032973.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6782	19528	32554	1.14	1.0E-69	BE631007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
6782	19528	32555	1.14	1.0E-69	BE631007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
10073	22721	35637	4.91	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10073	22721	35638	4.91	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10168	22818	36034	1.38	1.0E-69	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
10314	22861	36177	0.57	1.0E-69	BF528429.1	EST_HUMAN	602043782F1 NCI_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4181325 5'
10782	23465		10.62	1.0E-69	4604918	NT	Homo sapiens keratin 8 (KRT8) mRNA
11904	24512	37261	1.74	1.0E-69	BF125987.1	EST_HUMAN	601762902F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'
12366	24769		4.45	1.0E-69	A1809994.1	EST_HUMAN	wf64a08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360390 3' similar to contains Alu repetitive element; contains element MIR repetitive element;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2331	15591	27761	2.08	8.0E-70	AA230303.1	EST_HUMAN	nc13d12.11 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1008023
4340	17079	29708	1.93	8.0E-70	L77506.1	NT	Homo sapiens DGS-1 mRNA, 3' end
1806	14546	27260	1.01	7.0E-70	AI497807.1	EST_HUMAN	tm89f01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165305 3'
1806	14546	27261	1.01	7.0E-70	AI497807.1	EST_HUMAN	tm89f01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165305 3'
1923	14660	27371	1.66	7.0E-70	AA282955.1	EST_HUMAN	z15f04.11 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:713239 5'
2056	14788		2.92	7.0E-70	5031668	NT	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC-1R) mRNA
4199	16940	29566	3.67	7.0E-70	4757723	NT	Homo sapiens adenylate cyclase 3 (ADCY3) mRNA
5395	18195	30898	4.86	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
5395	18195	30899	4.88	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6828	19487	32509	2.16	7.0E-70	AJ000052.1	NT	Homo sapiens gene encoding splicing factor SF1, exons 2-8
8330	21023	34159	2.2	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8330	21023	34160	2.2	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8622	21314	34457	3.58	7.0E-70	M74099.1	NT	Human displacement protein (CCAAT) mRNA
8622	21314	34458	3.58	7.0E-70	M74099.1	NT	Human displacement protein (CCAAT) mRNA
9055	21744	34902	3.8	7.0E-70	X59841.1	NT	Human PBX3 mRNA
9055	21744	34903	3.8	7.0E-70	X59841.1	NT	Human PBX3 mRNA
8335	20406	33522	3.43	7.0E-70	AF153715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
9361	20431	33551	2.69	7.0E-70	11525984	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9361	20431	33552	2.69	7.0E-70	11525984	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9556	22209	35394	0.57	7.0E-70	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
10196	22844	36058	0.62	7.0E-70	AB036429.1	NT	Homo sapiens NDS14 mRNA for N-deacetylase/sulfotransferase 4, complete cds
10196	22844	36059	0.62	7.0E-70	AB036429.1	NT	Homo sapiens NDS14 mRNA for N-deacetylase/sulfotransferase 4, complete cds
11010	23682	36941	1.54	7.0E-70	11429685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
11010	23682	36942	1.54	7.0E-70	11429685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
11597	24198	37515	1.65	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11597	24198	37516	1.65	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
851	13021	26291	1.77	6.0E-70	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2133	14863	27593	1.21	6.0E-70	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
2513	15230	27970	1.22	6.0E-70	8923899	NT	Homo sapiens CMP-N-acetylneuraminic acid synthase (LOC55507), mRNA
2555	15598	28003	2.18	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2555	15598	28004	2.18	5.0E-70	7062307	NT	Homo sapiens KIAA0782 gene product (KIAA0782), mRNA
11974	24519		2.75	5.0E-70	BE106034.1	EST_HUMAN	MR3-HT0487-150200-115-a08 HT0487 Homo sapiens cDNA
6056	19417	32431	1.03	4.0E-70	T06037.1	EST_HUMAN	EST03928 Fetal brain, Strategene (cat#336206) Homo sapiens cDNA clone HFDN25
6056	19813	32653	1.78	4.0E-70	AW793226.1	EST_HUMAN	GM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
6056	19813	32654	1.78	4.0E-70	AW793226.1	EST_HUMAN	GM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
1584	14330	27016	1.23	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071299-011-a12 BT0522 Homo sapiens cDNA
1584	14330	27017	1.23	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071299-011-a12 BT0522 Homo sapiens cDNA
5532	18330	31294	0.85	3.0E-70	11430988	NT	Homo sapiens plekophillin 4 (PKP4), mRNA
5532	18330	31235	0.85	3.0E-70	11430988	NT	Homo sapiens plekophillin 4 (PKP4), mRNA
5555	18842	31591	1.6	3.0E-70	AI831975.1	EST_HUMAN	wh0403.x1 NCI_CGAP_GLL1 Homo sapiens cDNA clone IMAGE:2388005 3'
6280	19053	32031	1.85	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5'
6280	19053	32032	1.85	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5'
10008	22656	35959	0.58	3.0E-70	BE502973.1	EST_HUMAN	hzb1h02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214419 3'
37	12865	25484	1.2	2.0E-70	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230), complete cds
673	13449	26080	14.09	2.0E-70	N42161.1	EST_HUMAN	YW07a10.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HL_RAT P29286 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
673	13449	26080	14.09	2.0E-70	N42161.1	EST_HUMAN	YW07a10.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HL_RAT P29286 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
689	13464	26113	1.7	2.0E-70	A1246899.1	EST_HUMAN	q55h01.x1 NCI_CGAP_Pant1 Homo sapiens cDNA clone IMAGE:2004913 3'
1000	13760	28421	1.56	2.0E-70	8923669	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
1161	13915	26578	3.05	2.0E-70	7661983	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1161	13915	26579	3.05	2.0E-70	7661983	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1736	14478	27177	1.66	2.0E-70	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2318	15043		5.32	2.0E-70	AA054010.1	EST_HUMAN	zf48g04.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A
3615	16368	29011	0.78	2.0E-70	H37988.1	EST_HUMAN	P03345 GAG POLYPROTEIN ;
4027	16772	29404	5.06	2.0E-70	M69181.1	NT	yp68b04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:191599 5'
5426	18227	30839	8.7	2.0E-70	X72662.1	NT	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds
5426	18227	30940	8.7	2.0E-70	X72662.1	NT	H. sapiens gene for schwannomin (CS8)
6111	18888	31857	1.27	2.0E-70	AF310105.1	NT	H. sapiens gene for schwannomin (CS8)
6538	19303	32307	1.75	2.0E-70	D12625.1	NT	Homo sapiens NALP1 mRNA, complete cds
6538	19303	32307	1.75	2.0E-70	D12625.1	NT	Human mRNA for NF1 protein isoform (neurofibromin isoform), complete cds
6598	19333	32342	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6598	19333	32343	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6897	17973	30530	1.88	2.0E-70	11422642	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminidase alpha 2,3-sialyltransferase) (SIAT6), mRNA
7303	19986	33062	0.76	2.0E-70	AF288207.1	NT	Homo sapiens cysteinyl-RNA synthetase mRNA, complete cds, alternatively spliced
7819	20514	33639	9.02	2.0E-70	M21741.1	NT	Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha), exons 4 and 5
8121	20816	33951	0.5	2.0E-70	11423599	NT	Homo sapiens amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen storage disease type III) (AGL), mRNA
8558	21250		0.8	2.0E-70	H47959.1	EST_HUMAN	yp79g02.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:193682 5'
9087	21758	34918	0.95	2.0E-70	11528355	NT	Homo sapiens dynactin p82 subunit (LOC51184), mRNA
10038	22886	35904	1.46	2.0E-70	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10500	23146	36373	0.47	2.0E-70	AB033042.1	NT	Homo sapiens mRNA for KIAA1216 protein, partial cds
11005	23677	36933	3.75	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11005	23677	36934	3.75	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11639	24236	37559	7.32	2.0E-70	4503520	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 6 (48kD) (EIF3S6) mRNA
12353	24757	31058	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12353	24757	31059	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3388	16147		2.63	1.0E-70	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM3) mRNA
9180	21850		0.69	1.0E-70	W85795.1	EST_HUMAN	z655g05.1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE:416024 5'
9698	22349		0.66	1.0E-70	AA442292.1	EST_HUMAN	z64c03.1 Soares testis NHT Homo sapiens cDNA clone IMAGE:757444 5'
10852	23532	36777	7.13	1.0E-70	AV738538.1	EST_HUMAN	AV738538 CB Homo sapiens cDNA clone CBLBGB10 5'
5854	18641	31579	7.05	9.0E-71	AI143870.1	EST_HUMAN	qe04f01.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1736009 3' similar to TR:O14045
5854	18641	31580	7.05	9.0E-71	AI143870.1	EST_HUMAN	O14045 PHOSPHOTRANSFERASE ;
6932	19668	32714	2.23	9.0E-71	AI654903.1	EST_HUMAN	qe04f01.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1736009 3' similar to TR:O14045
11508	19668	32714	4.79	9.0E-71	AI654903.1	EST_HUMAN	wb52e05.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
8968	21658		5.03	8.0E-71	AA171451.1	EST_HUMAN	CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
7275	19959	33038	8.9	7.0E-71	AA442230.1	EST_HUMAN	wb52e05.x1 NCI CGAP_G08 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
8578	21270	34408	1.02	7.0E-71	AA705457.1	EST_HUMAN	CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
11302	23961	37262	2.07	7.0E-71	AL163210.2	NT	zp21d11.1 Stratagene neuroepithelium (#637231) Homo sapiens cDNA clone IMAGE:610101 5' similar to TR:G1143061 G1143061 STRAIN XA34 POL ;
2207	14935	27673	5.97	5.0E-71	AF056322.1	NT	TR:G1143061 G1143061 STRAIN XA34 POL ;
							z601h06.1 Soares testis NHT Homo sapiens cDNA clone IMAGE:758075 5'
							z61a06.1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE:462226 3'
							Homo sapiens chromosome 21 segment HS21C010
							Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4101	16844	29472	1.36	5.0E-71	AW818405.1	EST_HUMAN	QV4-ST0234-181199-037-405 ST0234 Homo sapiens cDNA
5790	18581	31508	2.23	5.0E-71	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6564	19329	32336	1.42	5.0E-71	11841408	NT	Homo sapiens keratin, hair, acidic, 7 (KRTHA7), mRNA
6821	19482	32504	1.43	5.0E-71	7682209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6878	17954	30550	0.62	5.0E-71	AB033106.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
6878	17954	30551	0.62	5.0E-71	AB033106.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
7046	19737	32798	0.76	5.0E-71	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7410	20087	33171	1.47	5.0E-71	M38106.1	NT	Human neurofibromatosis protein type 1 mRNA, 3' end of cds
7607	20273	33381	0.75	5.0E-71	11526445	NT	Homo sapiens MAGUK protein p57; Protein Associated with Lhs 2 (LOC51678), mRNA
7634	20289	33408	22.56	5.0E-71	AF072810.1	NT	Homo sapiens transcription factor WSTF mRNA, complete cds
8421	21114	34251	0.61	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
8421	21114	34252	0.61	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
9811	22462		2.67	5.0E-71	X13467.1	NT	Human PrkA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
10530	23227	36461	1.45	5.0E-71	5728900	NT	Homo sapiens IGF-1 mRNA-binding protein 3 (KOC1), mRNA
10901	23581	36831	2.93	5.0E-71	11436614	NT	Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III, neutrophil-activating peptide-2) (PPBP), mRNA
11147	23814	37097	2.57	5.0E-71	11438069	NT	Homo sapiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC833325), mRNA
340	13141	25778	102.7	4.0E-71	AF157626.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
340	13141	25779	102.7	4.0E-71	AF157626.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2898	15656	28299	1.97	4.0E-71	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4394	17131	29762	3.37	4.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
4926	17654	30266	5.57	4.0E-71	7657602	NT	Homo sapiens putative home-binding protein (SOUL), mRNA
5099	17788	30404	1.1	4.0E-71	7018352	NT	Homo sapiens cofactor required for Sp1 transcriptional activation, subunit 3 (130kD) (CRSP3), mRNA
7833	20628		1.41	3.0E-71	AU135734.1	EST_HUMAN	AU135734 PLAGE1 Homo sapiens cDNA clone PLAGE1002775 5'
10501	23285	36523	3.38	3.0E-71	AA567883.1	EST_HUMAN	n145n10.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE1043683 similar to contains PTR5.13 PTR5 repetitive element;
1208	13659	26626	2.02	2.0E-71	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
5237	18043	30672	8.24	2.0E-71	D87462.1	NT	Homo sapiens mRNA for KIAA0272 gene, partial cds
5237	18043	30673	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
6871	17948	30543	0.55	2.0E-71	AL042439.1	EST_HUMAN	DKFZp434D1721_1 434 (synonym: hbs2) Homo sapiens cDNA clone DKFZp434D1721 5'
8803	21594	34735	0.64	2.0E-71	BF195585.1	EST_HUMAN	7n85c11.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE3571221 3' similar to TR:Q9Z165 Q9Z165 PUTATIVE FOUR REPEAT ION CHANNEL.;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10485	23131	36357	3.88	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10485	23131	36358	3.88	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10583	23287	36524	3.21	2.0E-71	BE018477.1	EST_HUMAN	bb81a06.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048754 5' similar to SW.R23B_HUMAN P64727 UV EXCISION REPAIR PROTEIN RAD23 HOMOLOG B ;
11552	24151	37463	1.35	2.0E-71	BF149173.1	EST_HUMAN	Tm01022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gl 6598881
11552	24151	37464	1.38	2.0E-71	BF149173.1	EST_HUMAN	Tm01022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gl 6598881
11576	24175	37480	2.35	2.0E-71	R55626.1	EST_HUMAN	yf77c11.1 Scores breast 2NBH8st Homo sapiens cDNA clone IMAGE:164772 5'
12038	24561		8.43	2.0E-71	T95489.1	EST_HUMAN	ye43a09.1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:120520 5'
623	13402	26037	1.83	1.0E-71	A0177927.1	EST_HUMAN	oy15603.s1 Scores_sarcomatous_fibroblasts_NHHSF Homo sapiens cDNA clone IMAGE:1665916 3' similar to contains LOR1.b2 LOR1 repetitive element ;
920	13687	26351	2.37	1.0E-71	7706281	NT	Homo sapiens neuronal cell death-related protein (LOC51616), mRNA
1078	13836	26494	6.15	1.0E-71	AF206890.1	NT	Homo sapiens disabled-2 gene, exons 2 through 15 and complete cds
1317	14066	26740	11.71	1.0E-71	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2074	14806	27536	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2074	14806	27537	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2698	15407	28142	3.91	1.0E-71	7657153	NT	Homo sapiens haly/henhancer-of-split related with YRPW motif-like (HEYL), mRNA
3493	16249	28903	2.53	1.0E-71	AF119866.1	NT	Homo sapiens inorganic pyrophosphatase mRNA, complete cds
3583	16338	28982	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3583	16338	28983	5.89	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3639	16392	29031	0.98	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3639	16392	29032	0.98	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3724	16477	29114	2	1.0E-71	AF218904.1	NT	Homo sapiens actinin precursor (ATRN) gene, exon 19
4437	17173	29801	1.92	1.0E-71	D28476.1	NT	Human mRNA for KIAA0045 gene, complete cds
4552	17287	29916	0.98	1.0E-71	H23176.1	EST_HUMAN	ym56h10.1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:52528 5'
6843	19405	32420	1.07	1.0E-71	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
6986	19679	32726	1.39	1.0E-71	AB011131.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
7211	19896	32971	13.35	1.0E-71	U80753.1	NT	Homo sapiens CAGL79 mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8046	20740	33872	0.69	1.0E-71	AF105267.1	NT	Homo sapiens glycican-6 (GPC6) mRNA, complete cds
8069	20763	33891	2.26	1.0E-71	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8345	21038	34174	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
8345	21038	34175	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
9128	21816	34982	0.78	1.0E-71	S72393.1	NT	CSNK2A1=casein kinase II (CKII) subunit alpha [human, Genomic, 18862 nt]
9908	22557	35752	7.89	1.0E-71	AY007643.1	NT	Homo sapiens cytochrome c oxidase subunit VIIa-related protein gene, complete cds
9968	22616		2.05	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10436	23082	36309	1.45	1.0E-71	11433142	NT	Homo sapiens activated leukocyte cell adhesion molecule (ALCAM), mRNA
10684	23375		2.58	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10786	23479	36720	2.19	1.0E-71	11418903	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
11093	23763	37037	1.73	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
11093	23763	37038	1.73	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
12401	24786		4.96	1.0E-71	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
398	13183	25830	1.72	9.0E-72	AI857635.1	EST_HUMAN	wk85g03.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:086705 086705 HYPOTHETICAL 38.6 KD PROTEIN, contains Alu repetitive element
398	13183	25831	1.72	9.0E-72	AI857635.1	EST_HUMAN	wk85g03.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:086705 086705 HYPOTHETICAL 38.6 KD PROTEIN, contains Alu repetitive element
6020	18901	31762	0.97	8.0E-72	BF035752.1	EST_HUMAN	601458747F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862451 5'
4092	16834	29458	2.63	7.0E-72	4501866	NT	Homo sapiens acornase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	16834	29459	2.63	7.0E-72	4501866	NT	Homo sapiens acornase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	16834	29460	2.63	7.0E-72	4501866	NT	Homo sapiens acornase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
7024	19716	32773	2.99	7.0E-72	S41694.1	NT	[pseudogene] P TMAP2=prothymosin alpha [human, Genomic, 1192 nt, segment 2 of 3]
12520	24868		1.9	7.0E-72	F26259.1	EST_HUMAN	HSPD13670 HM3 Homo sapiens cDNA clone s4000051G02
8283	20977		4.14	6.0E-72	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
60	12889	25521	1.06	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
60	12889	25522	1.06	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
61	12889	25521	3.47	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
61	12889	25522	3.47	5.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
1117	19374		3.62	5.0E-72	L11645.1	NT	Homo sapiens alpha-tubulin mRNA, complete cds
6851	19551	32581	1.59	5.0E-72	AU128584.1	EST_HUMAN	AU128584 NT2RP2 Homo sapiens cDNA clone NT2RP2003751 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7731	20394	33509	0.73	5.0E-72	AA310832.1	EST_HUMAN	EST188312 HCC cell line (metastasis to liver in mouse) Homo sapiens cDNA 5' end similar to similar to FAC1
8875	21387	34514	3.71	5.0E-72	AW161274.1	EST_HUMAN	au0803.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to TR:Q99785 Q99785 HYPOTHETICAL 32.4 KD PROTEIN ; contains element MSR1 repetitive element ;
9861	22511	35708	0.89	5.0E-72	AV724632.1	EST_HUMAN	AV724632 HTB Homo sapiens cDNA clone HTBAKB01 5'
11208	23871	37157	3.45	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-005 BT0598 Homo sapiens cDNA
11208	23871	37158	3.45	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-005 BT0598 Homo sapiens cDNA
11643	24240	37563	1.61	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806 5'
11643	24240	37564	1.61	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806 5'
12107	25358		2.82	5.0E-72	BE828846.1	EST_HUMAN	QV1-BT0632-280800-342-a10 BT0632 Homo sapiens cDNA
5378	18178	30888	0.82	4.0E-72	AF170025.1	NT	Homo sapiens zinc finger protein ZFP-95 (ZFP95) mRNA, alternatively spliced, complete cds
6462	19228	32230	0.88	4.0E-72	T87947.1	EST_HUMAN	yd83a01.t1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115752 5' similar to SP:A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
7309	19892	33089	2.03	4.0E-72	5729867	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
9684	22336	35531	1.3	4.0E-72	8923069	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
10282	22938	36152	0.48	4.0E-72	AW838230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10282	22938	36153	0.48	4.0E-72	AW838230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10320	22867	36186	0.92	4.0E-72	A1248796.1	EST_HUMAN	qh67c02.x1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849730 3' similar to TR:Q14498 Q14498 SPLICING FACTOR, [1] ; contains Alu repetitive element; contains element L1 repetitive element ;
11255	23917	37210	1.57	4.0E-72	AA465388.1	EST_HUMAN	sa23f08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11255	23917	37211	1.57	4.0E-72	AA465388.1	EST_HUMAN	sa23f08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11514	24114	37424	7.78	4.0E-72	H79421.1	EST_HUMAN	yu28a03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:235084 5'
11637	24234	37555	1.75	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11637	24234	37558	1.75	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11680	24275	37597	2.16	4.0E-72	T81910.1	EST_HUMAN	yd28d08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109649 3'
12453	24822	31025	8.92	4.0E-72	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
18	12848	25458	0.89	3.0E-72	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
883	13652		1.52	3.0E-72	AA723823.1	EST_HUMAN	ah63a06.s1 Soares testis_NHT Homo sapiens cDNA clone 1310280 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1132	13888	26546	8.84	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1132	13888	26547	8.84	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1171	13925	26587	0.72	3.0E-72	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1171	13925	26588	0.72	3.0E-72	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1510	14256	26942	1.24	3.0E-72	BE242161.1	EST_HUMAN	TCAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HQSC project=TCAA Homo sapiens cDNA clone TCAAP1252
3072	15838	28481	11.45	3.0E-72	AJ228043.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
3273	16034	28684	2.17	3.0E-72	8923548	NT	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA
3803	16555	29188	2.89	3.0E-72	S77589.1	NT	TCR V delta 2-C alpha T-cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction)
4508	17243	29876	3.12	3.0E-72	11416198	NT	[human, precursor B-cell line REH, mRNA Partial, 211 nt]
4715	17447	30079	1.07	3.0E-72	AF167572.1	NT	Homo sapiens hypothetical protein (FLJ11127), mRNA
4715	17447	30080	1.07	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4862	17591	30215	0.95	3.0E-72	A054337.1	EST_HUMAN	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
5433	18232	31621	1.27	3.0E-72	4759083	NT	h31a08.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2307254.3
5891	18676	31621	2.1	3.0E-72	AF073387.1	NT	Homo sapiens semaphorin W (SEMAW) mRNA
5891	18676	31622	2.1	3.0E-72	AF073387.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6074	18853	31819	4.82	3.0E-72	AB029004.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6074	18853	31820	4.82	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6516	19281	32284	3.63	3.0E-72	4826987	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
7485	20157	33249	2.15	3.0E-72	U80017.1	NT	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA
8075	20769	33998	0.96	3.0E-72	5031882	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
10331	22978	36198	1.2	3.0E-72	X98289.1	NT	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA
5869	18656	31597	1.91	2.0E-72	11429871	NT	Homo sapiens S100A12 gene for Calgranulin C, exon 2 and joined cds
9893	21683	34832	0.71	2.0E-72	BF308560.1	EST_HUMAN	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA
9893	21683	34833	0.71	2.0E-72	BF308560.1	EST_HUMAN	601800419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461.5
10640	23331	36569	2.47	2.0E-72	AA789277.1	EST_HUMAN	601800419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461.5
12449	24819	31022	5.75	2.0E-72	AF182714.1	NT	aj28503.s1 Soenae_besle NHT Homo sapiens cDNA clone 1391609.3 similar to gb.X02067 H. sapiens mRNA for 7SL RNA pseudogene (HUMAN);
2068	14800	27527	1.19	1.0E-72	AA846225.1	EST_HUMAN	Rattus norvegicus putative phosphatidylphosphoenolpyruvate translocator mRNA, complete cds
							af83d02.s1 Soenae_perathyrid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1387395.3

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5690	18473	31390	3.63	1.0E-72	7657676	NT	Homo sapiens vacuolar protein sorting 41 (yeast homolog) (VPS41), mRNA
6494	19231	32231	1.31	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6494	19231	32232	1.31	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6536	25093	32305	1.2	1.0E-72	AV751818.1	EST_HUMAN	AV751818 NP2 Homo sapiens cDNA clone NPDAIE11 5'
7537	20207	33304	3.7	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
7537	20207	33305	3.7	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
8491	22144	35324	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2), complete cds
8491	22144	35325	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2), complete cds
1444	14191	26875	1.35	9.0E-73	AW374988.1	EST_HUMAN	MRO-CT0063-071098-002-h11 CT0063 Homo sapiens cDNA
10871	23551		15.11	9.0E-73	11424099	NT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
1015	13774	28434	2.29	8.0E-73	AW071755.1	EST_HUMAN	w55c06.x1 NC1 CGAP Brn25 Homo sapiens cDNA clone IMAGE:2501098 3' similar to TR:Q59050
5493	18292	31190	1	8.0E-73	4505798	NT	Q59050 HYPOTHETICAL PROTEIN MJ1656 ;
6478	19245	32245	5.18	8.0E-73	11428469	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7894	20689	33817	2.87	8.0E-73	AF113129.1	NT	Homo sapiens lysoczyme homolog (LOC57151), mRNA
							Homo sapiens vacuolar ATPase isoform VA68 mRNA, complete cds
9253	21932	35105	6.25	8.0E-73	BE019900.1	EST_HUMAN	bb62a06.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb:X04098_cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb:M21495 Mouse cytoskeletal gamma-actin mRNA, complete cds (MOUSE);
9640	22292	35484	1.92	8.0E-73	11528037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
9640	22292	35485	1.92	8.0E-73	11528037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
10507	23163	36379	0.45	8.0E-73	4507628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNPI) mRNA
11573	24172	37488	1.28	8.0E-73	11418788	NT	Homo sapiens DEAD-box protein (HAGE), mRNA
12508	24859	31012	3.31	8.0E-73	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (GZ2P1), mRNA
1112	13868	26528	0.89	7.0E-73	8923200	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3295	16056	28705	1.18	7.0E-73	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
4891	17618		1.35	7.0E-73	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
154	12908		3.07	6.0E-73	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
7072	19763	32827	3.48	6.0E-73	BE166674.1	EST_HUMAN	QV0-HT0004-020300-137-403 HT0494 Homo sapiens cDNA
5173	17982	30497	2.2	4.0E-73	11422159	NT	Homo sapiens HELG protein (FAM441), mRNA
1318	14067	26741	2.77	3.0E-73	AW843789.1	EST_HUMAN	CNM-CH0004-260100-184-808 CN0044 Homo sapiens cDNA
6698	19361	32374	0.71	3.0E-73	AA196403.1	EST_HUMAN	zn06c04.r1 Strategene fetal retina 937202 Homo sapiens cDNA clone IMAGE:565980 3' similar to gb:Z23064_cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN);
8656	21348	34482	0.65	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'
8656	21348	34493	0.65	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11611	24209		1.51	3.0E-73	AI004040.1	EST_HUMAN	eu11402.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1625955 3'
12734	25003		1.5	3.0E-73	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12738	25005		1.54	3.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
831	13601	28271	1.43	2.0E-73	AF138897.1	NT	Homo sapiens BASS1 (BASS1) mRNA, partial cds
1939	14674		1.78	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
2296	15021		1.3	2.0E-73	U01317.1	NT	Human beta globin region on chromosome 11
3177	15940	28590	3.99	2.0E-73	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3538	16294	28943	0.91	2.0E-73	7669539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3538	16294	28944	0.91	2.0E-73	7669539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
4401	17138		1.03	2.0E-73	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
6344	19114	32102	0.89	2.0E-73	AF086824.1	NT	Mus musculus rho/rac-interacting citron kinase (Crik) mRNA, complete cds
6344	19114	32103	0.89	2.0E-73	AF086824.1	NT	Mus musculus rho/rac-interacting citron kinase (Crik) mRNA, complete cds
6389	19158	32159	6.27	2.0E-73	AB048811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6600	19363	32376	1.27	2.0E-73	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
6600	19363	32377	1.27	2.0E-73	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
7699	20362	33476	0.69	2.0E-73	M94048.1	NT	Human peripheral myelin protein 22 mRNA, complete cds
7701	20364	33478	0.73	2.0E-73	AB037750.1	NT	Homo sapiens mRNA for KIAA1329 protein, partial cds
9432	22110	35284	0.52	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
9432	22110	35285	0.52	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
10322	22669	36189	1.21	2.0E-73	4504168	NT	Homo sapiens glutathione synthetase (GSS) mRNA
10394	23040	36257	1.31	2.0E-73	11496980	NT	Homo sapiens supravillin (SVIL), transcript variant 1, mRNA
10394	23040	36258	1.31	2.0E-73	11496980	NT	Homo sapiens supravillin (SVIL), transcript variant 1, mRNA
10987	23662	36917	3.37	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
10987	23662	36918	3.37	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11020	23692	36955	1.82	2.0E-73	AB026982.1	NT	Homo sapiens mRNA for KIAA1059 protein, partial cds
12293	14974		1.83	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
1776	14518	27221	1.71	1.0E-73	AU121585.1	EST_HUMAN	AU121585 MAMMA1 Homo sapiens cDNA clone MAMMA1000490 5'
2488	15205	27946	1.12	1.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
6266	19039	32015	1.07	1.0E-73	BE151283.1	EST_HUMAN	CM1-HT0282-111199-042-H10 HT0282 Homo sapiens cDNA
9399	22061	35230	1.37	1.0E-73	A1147427.1	EST_HUMAN	qg81b07.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839637 5' similar to corticins element
11428	23195	36426	2.95	1.0E-73	BE385477.1	EST_HUMAN	MER22 repetitive element ;
							001276071F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3617105 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
723	13497	26150	1.06	8.0E-74	4557426	NT	Homo sapiens CD39-like 4 (CD39L4) mRNA
5824	18613	31544	2.2	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
5824	18613	31545	2.2	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
10791	23474		1.36	8.0E-74	N52239.1	EST_HUMAN	y46g10.s1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:245826 3'
1942	14677	27390	2.59	7.0E-74	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
3322	18082	28732	1.08	7.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9142	21873	35038	2.83	7.0E-74	BE967432.1	EST_HUMAN	601649284F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3832967 5'
12505	24858	31011	5.51	7.0E-74	BE266305.1	EST_HUMAN	601191927F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535855 5'
1100	13858	26518	2.4	6.0E-74	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
2314	15039	27776	11.78	6.0E-74	BE388260.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2314	15039	27777	11.78	6.0E-74	BE388260.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2867	15634	28279	1.32	6.0E-74	AW014039.1	EST_HUMAN	U1H-B10-est-h-03-Q-U1.s1 NCI CGAP Sub1 Homo sapiens cDNA clone IMAGE:2706365 3'
2867	15634	28280	1.32	6.0E-74	AW014039.1	EST_HUMAN	U1H-B10-est-h-03-Q-U1.s1 NCI CGAP Sub1 Homo sapiens cDNA clone IMAGE:2706365 3'
3700	16453	29082	1.34	6.0E-74	BE048946.1	EST_HUMAN	hr54e11.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3'
3700	16453	29083	1.34	6.0E-74	BE048946.1	EST_HUMAN	hr54e11.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3'
5281	18086	30744	3.02	6.0E-74	11056013	NT	Homo sapiens actin filament associated protein (AFAP), mRNA
885	13654	26322	7.33	5.0E-74	AW020986.1	EST_HUMAN	df17c09.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483704 5'
2706	15413		2.62	5.0E-74	AW362756.1	EST_HUMAN	PMO-C10289-271099-001-h07 C10289 Homo sapiens cDNA
5322	18125	30784	1.86	5.0E-74	11425417	NT	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
5703	18497	31419	12.98	5.0E-74	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
5748	18540	31462					Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
5819	18608	31536	1.84	5.0E-74	4507868	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
5819	18608	31537	1.84	5.0E-74	11431471	NT	Homo sapiens Interleukin 4 receptor (IL4R), mRNA
6705	19539	32567	5.98	5.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7569	19539	32567	0.6	5.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7936	20631	33786	2.78	5.0E-74	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
10638	23328	36565	2.56	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
10638	23328	36566	2.56	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
10757	23442	36687	2.68	5.0E-74		NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
273	13080	26723	1.79	4.0E-74	D67675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
832	13602	26272	5.15	4.0E-74	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1955	14690	27403	2.02	4.0E-74	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1955	14690	27404	2.02	4.0E-74	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2065	14797	27523	2.75	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2065	14797	27524	2.75	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2128	14859	27589	1.89	4.0E-74	AB032894.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2427	15148	27882	27.23	4.0E-74	AJ006978.1	NT	Homo sapiens PLP gene
3088	15853	28495	5.2	4.0E-74	AJ006978.1	NT	Homo sapiens PLP gene
3518	16274	28928	0.82	4.0E-74	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4041	16786	29414	1.03	4.0E-74	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4520	17255	29889	2.23	4.0E-74	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4573	17308	29937	0.88	4.0E-74	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
5015	17736	30343	0.96	4.0E-74	4504326	NT	Homo sapiens hydroxycy-Coenzyme A dehydrogenase/3-ketocyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
5015	17736	30344	0.96	4.0E-74	4504328	NT	Homo sapiens hydroxycy-Coenzyme A dehydrogenase/3-ketocyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
8448	21140		8.45	3.0E-74	AA300378.1	EST_HUMAN	EST13131 Thymus tumor III Homo sapiens cDNA 5' end similar to similar to ribosomal protein L37
8473	21165	34308	0.79	3.0E-74	9666912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
9272	22026	35196	2.99	3.0E-74	M78984.1	EST_HUMAN	EST01132 Subtracted Hippocampus, Striatum (cat. #836205) Homo sapiens cDNA clone HHCPF91
10237	22885	36096	2.68	3.0E-74	AA601493.1	EST_HUMAN	no17g05.s1 NCI_GGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100984 3'
938	13705	26370	175.01	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
938	13705	26371	175.01	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
1152	13907	26570	1.11	2.0E-74	AF020092.1	NT	Homo sapiens endogenous retrovirus HERV-K-T47D
1222	13972	26844	1.36	2.0E-74	AI950528.1	EST_HUMAN	wx51e07.x1 NCI_GGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95; contains element MER22 repetitive element;
1590	14336	27024	3.79	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
1590	14336	27025	3.79	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
2609	15321	28063	0.94	2.0E-74	AI557280.1	EST_HUMAN	PT2.1_15_G11.7 tumor2 Homo sapiens cDNA 3'
4945	17672	30281	2.44	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22
4945	17672	30282	2.44	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4949	17676	30286	1.11	2.0E-74	J02963.1	NT	Human platelet glycoprotein IIB mRNA, 3' end
5709	25074	31424	2.5	2.0E-74	BE11134.1	EST_HUMAN	RC8-HT0678-220500-011-C03 HT0678 Homo sapiens cDNA
5806	25077	31521	1.89	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
5806	25077	31522	1.89	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
5876	25077	31521	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
5876	25077	31522	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
7003	19695	32748	0.92	2.0E-74	BF030788.1	EST_HUMAN	601557524F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827549 5'
7841	20536	33663	1.29	2.0E-74	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
9282	22036	35208	6.06	2.0E-74	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
12234	24687		3.95	2.0E-74	AA190181.1	EST_HUMAN	zp96a06.s1 Strategene muscle 937209 Homo sapiens cDNA clone IMAGE:628018 3'
52	12881	25509	1.89	1.0E-74	7657334	NT	Homo sapiens Missheper/NIK-related kinase (MINK), mRNA
328	13129	25784	5.02	1.0E-74	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
487	13272	25907	1.05	1.0E-74	8922828	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
493	13277	25912	13.0	1.0E-74	X02344.1	NT	Homo sapiens beta 2 gene
587	13367	25995	1.47	1.0E-74	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
765	13638	26197	1.81	1.0E-74	AB020940.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
979	13744	26406	2.27	1.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2223	14851	27060	4.39	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
3136	16900	28545	3.55	1.0E-74	4758897	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
3398	18125	28782	0.9	1.0E-74	AA258549.1	EST_HUMAN	zr60c01.r1 Soares_NIHMPu_S11 Homo sapiens cDNA clone IMAGE:667776 5'
3398	18125	28783	0.9	1.0E-74	AA258549.1	EST_HUMAN	zr60c01.r1 Soares_NIHMPu_S11 Homo sapiens cDNA clone IMAGE:667776 5'
3901	16851	29292	0.86	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3901	16851	29293	0.86	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3950	16700	28338	4.81	1.0E-74	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4042	16787	29416	1.15	1.0E-74	BE083080.1	EST_HUMAN	RC2-BT0642-270300-019-f06 BT0642 Homo sapiens cDNA
6905	19398	32380	1.86	1.0E-74	M89914.1	NT	Human neurofibromin (NF-1) gene, complete cds
7526	20197	33291	1.15	1.0E-74	11417977	NT	Homo sapiens KIAA0852 protein (KIAA0852), mRNA
7955	20650	33773	1.13	1.0E-74	BE549106.1	EST_HUMAN	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456260 5'
7955	20650	33774	1.13	1.0E-74	BE549106.1	EST_HUMAN	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456260 5'
8704	21396	34543	4.82	1.0E-74	AF214562.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8733	21425	34571	0.86	1.0E-74	BF351951.1	EST_HUMAN	MRO-HT0550-230500-021-a03 HT0550 Homo sapiens cDNA
10140	22788	36001	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10140	22788	36002	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10380	23028	36241	1.38	1.0E-74	11420549	NT	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11885	24458	37800	2.92	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
11885	24513		5.01	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12103	14951	27690	1.58	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12567	24897		1.53	1.0E-74	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2650	15360		3.68	8.0E-76	AF176228.1	NT	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B) mRNA, complete cds
12254	24700		1.86	8.0E-75	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2319	15044	27781	1.47	6.0E-75	AI817415.1	EST_HUMAN	wk38a08.x1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:2417654 3' similar to gb:M14123_cds4 RETROVIRUS-RELATED POLYPROTEIN (HUMAN);
7688	20352	33466	0.61	5.0E-75	AA573446.1	EST_HUMAN	nk90d03.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:1028933 3'
7688	20352	33467	0.61	5.0E-75	AA573446.1	EST_HUMAN	nk90d03.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:1028933 3'
8906	21498	34643	0.94	5.0E-75	BE272325.1	EST_HUMAN	601128086F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:2689865 5'
9015	21705	34855	0.6	5.0E-75	AA132611.1	EST_HUMAN	2017608.1 Strategic clone (#637204) Homo sapiens cDNA clone IMAGE:3687458 5'
9063	21782	34946	0.78	5.0E-75	BE671655.1	EST_HUMAN	601346808F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
9063	21782	34947	0.78	5.0E-75	BE671655.1	EST_HUMAN	601346808F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
9273	22027	35197	1.53	6.0E-75	BF600254.1	EST_HUMAN	602188816T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4208738 3'
10134	22782	35993	2.39	5.0E-75	AI638623.1	EST_HUMAN	h31c12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2242390 3' similar to TR:P97361 P97361 HYPOTHETICAL 20.1 KD PROTEIN;
110	12931	25588	2.16	4.0E-75	BE081333.1	EST_HUMAN	QV1-BT0632-210200-079-402 BT0632 Homo sapiens cDNA
446	13232		1.02	4.0E-75	N36757.1	EST_HUMAN	y90h08.t1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:269055 5'
1759	14501	27202	1.5	4.0E-75	AW897230.1	EST_HUMAN	CM0-NIN0057-150400-335-a11 NN0057 Homo sapiens cDNA
2853	15621	28266	4.89	4.0E-75	BE408464.1	EST_HUMAN	601303866F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638344 5'
3492	16248	28902	0.94	4.0E-75		EST_HUMAN	Homo sapiens hypothetical protein FLJ10747 (FLJ10747), mRNA
5442	18241	31128	0.56	4.0E-75	8922637	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5442	18241	31128	0.56	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6176	18953	31926	5.78	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6661	19421	32436	2.26	4.0E-75	5579457	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 8 (EIF3S8), mRNA
6661	19421	32437	2.26	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
10584	23279	36517	18.12	4.0E-75	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
982	13747	26409	3.72	3.0E-75	7669505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
983	13747	26409	2.41	3.0E-75	AF157623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1828	14567	27279	2.76	3.0E-75	AF157623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
2105	14836	27570	1.11	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIA0581 protein, partial cds
2422	15143	27876	5.86	3.0E-75	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
					4759153	NT	Homo sapiens synaptoosomal-associated protein, 29kD (SNAP29) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3021	15787	28434	0.97	3.0E-75	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3184	15947	28587	1.32	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
3345	16104	28757	0.75	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3345	16104	28758	0.75	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4147	16889	29521	3.27	3.0E-75	D87875.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4404	17141	29769	0.73	3.0E-75	7682421	NT	Homo sapiens KIAA0871 protein (KIAA0871), mRNA
5171	17980	30493	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
5171	17980	30494	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
6671	19588	32623	1.68	3.0E-75	11528319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6671	19588	32624	1.68	3.0E-75	11528319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7035	19727	32783	4.56	3.0E-75	7682209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7035	19727	32784	4.56	3.0E-75	7682209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7522	20193	33284	2.52	3.0E-75	468632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
7522	20193	33285	2.52	3.0E-75	468632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
8883	21574	34717	1.21	3.0E-75	11420956	NT	Homo sapiens snail 1 (drosophila homolog), zinc finger protein (SNA1), mRNA
9577	22230	35414	0.77	3.0E-75	11420222	NT	Homo sapiens Drosophila Kelch like protein (DKEELCH), mRNA
10440	23086	36314	2.28	3.0E-75	11436430	NT	Homo sapiens synuclein, alpha (non A4 component of amyloid precursor) (SNCA), mRNA
5587	18384		1.41	2.0E-75	AV734680.1	EST_HUMAN	AV734680 cDNA Homo sapiens cDNA clone cdABED02.5
8648	21340	34484	2.45	2.0E-75	AI311783.1	EST_HUMAN	q91e02.x1 NCL CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1915598 3' similar to TR:Q68386 Q68386
2076	14808	27539	1.12	1.0E-75	4506328	NT	POLENV GENE;
2076	14808	27540	1.12	1.0E-75	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2301	15026	27782	6.88	1.0E-75	AW168135.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2947	15713	28366	3.27	1.0E-75	X52221.1	NT	PTPR7 repetitive element;
8313	21006		4.27	1.0E-75	AA399270.1	EST_HUMAN	H. sapiens ERCC2 gene, exons 1 & 2 (partial)
9328	21895	35187	3.75	1.0E-75	BF313645.1	EST_HUMAN	z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:726485 3' similar to gb:M1932 40S
9328	21895	35188	3.75	1.0E-75	BF313645.1	EST_HUMAN	RIBOSOMAL PROTEIN S17 (HUMAN);
10797	23480		10.83	1.0E-75	AA664377.1	EST_HUMAN	801900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129678 5'
11033	23704	36072	2.56	1.0E-75	AF223391.1	NT	801900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129678 5'
							ac77h08.s1 Stratagene lung (#837210) Homo sapiens cDNA clone IMAGE:868599 3'
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11860	24444	37785	1.38	1.0E-76	AA417112.1	EST_HUMAN	zu04b03.r1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:730829 5'
12152	17912	30598	1.64	1.0E-75	BE894192.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'
43	12872	25493	1.24	9.0E-76	AI652848.1	EST_HUMAN	w630b10.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:O75235 O75235 TRAP1;
43	12872	25494	1.24	9.0E-76	AI652848.1	EST_HUMAN	w630b10.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:O75235 O75235 TRAP1;
9801	22452	35654	43.62	9.0E-76	M12837.1	NT	Human ferritin Heavy subunit mRNA, complete cds
917	13694	26347	1.08	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
917	13694	26348	1.08	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
2910	15676	28325	1	8.0E-76	7706724	NT	Homo sapiens mediator (Sur2), mRNA
6079	18858	31825	6.36	8.0E-76	11421442	NT	Homo sapiens LIM domain kinase 1 (LIMK1), mRNA
7388	20097	33145	1.26	8.0E-76	11435215	NT	Homo sapiens serine/threonine kinase 2 (STK2), mRNA
7465	20139	33231	0.86	8.0E-76	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8195	20899	34027	0.67	8.0E-76	11416961	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8995	21885	34835	0.55	8.0E-76	AB046704.1	NT	Homo sapiens mRNA for KIAA1544 protein, partial cds
10277	22925	36137	1.35	8.0E-76	M13792.1	NT	Human adenosine deaminase (ADA) gene, complete cds
10584	23280	36497	4.81	8.0E-76	10442821	NT	Homo sapiens baculoviral IAP repeat-containing 6 (BIRC6), mRNA
12491	24849		2	8.0E-76	11417962	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
759	13531	26191	1.41	7.0E-76	5018082	NT	Homo sapiens dihydropyrimidine dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo- glutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
3288	16049	28697	2.97	7.0E-76	AF056400.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
3294	16055	28704	7.55	7.0E-76	4505052	NT	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products
3330	16090	28743		7.0E-76	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
4338	17077	29705	4.73	7.0E-76	4507184	NT	Homo sapiens sepiapterin reductase (7,8-dihydropterin:NADP+ oxidoreductase) (SPR) mRNA
4338	17077	29708	4.73	7.0E-76	4507184	NT	Homo sapiens sepiapterin reductase (7,8-dihydropterin:NADP+ oxidoreductase) (SPR) mRNA
1212	13962		31.63	6.0E-76	BE396253.1	EST_HUMAN	601312018F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658757 5'
11442	23209	36440	3.76	6.0E-76	BE273201.1	EST_HUMAN	601142253F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506029 5'
1936	14671	27385	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1936	14671	27386	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1936	14671	27387	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5198	17998	30512	1.26	4.0E-76	BE783412.1	EST_HUMAN	601471725F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874470 5'
9923	22571	35768	6.42	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (TFujitwara) Homo sapiens cDNA clone GEN-178G01 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9823	22571	35769	6.42	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (TFujitwara) Homo sapiens cDNA clone GEN-178G01 5'
615	13393	28026	3.2	3.0E-76	BF516262.1	EST_HUMAN	UI-H-BW1-anz-b-04-0-U1.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
615	13393	28027	3.2	3.0E-76	BF516262.1	EST_HUMAN	UI-H-BW1-anz-b-04-0-U1.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
1594	14340	27029	3.28	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1594	14340	27030	3.28	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3422	16179	28828	4.96	3.0E-76	BF375889.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
3422	16179	28829	4.96	3.0E-76	BF375889.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
4058	16803	29434	1.07	3.0E-76	BE348963.1	EST_HUMAN	ht67112.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3151823 3' similar to TR:O94886 O94886
5158	17891	37796	2.07	3.0E-76	Z41314.1	EST_HUMAN	KIA00782 PROTEIN ;
5646	18441	31354	1.09	3.0E-76	AA160811.1	EST_HUMAN	HSCZQD042 normalized infant brain cDNA Homo sapiens cDNA clone c-zqd04 3'
6275	19048	32025	9.57	3.0E-76	AF286508.1	NT	z073c07.r1 Stratiopene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592524 5' similar to gbl:L32976 MIXED LINEAGE KINASE 1 (HUMAN);
8050	20744	33877	0.88	3.0E-76	N42671.1	EST_HUMAN	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
9816	22268	35458	3.34	3.0E-76	AW298353.1	EST_HUMAN	y22g10.1 Soares melanocyte 2Nblm Homo sapiens cDNA clone IMAGE:271842 5'
9841	22293	35486	0.99	3.0E-76	AA442309.1	EST_HUMAN	xe49h01.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2773009 3'
9841	22293	35487	0.99	3.0E-76	AA442309.1	EST_HUMAN	z54d111.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757461 5'
11876	25191	30812	1.93	3.0E-76	AW958455.1	EST_HUMAN	z54d111.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757461 5'
11979	25398	30802	4.86	3.0E-76	AW958455.1	EST_HUMAN	EST380059 MAGC resequences, MAGD Homo sapiens cDNA
275	13082	25725	1.59	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
333	13134	25768	4.39	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
333	13134	25769	4.39	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
448	13234	25984	1.19	2.0E-76	4557662	NT	Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA
578	13356	25984	1.08	2.0E-76	4503944	NT	Homo sapiens glucagon (GCG) mRNA
1008	13768	28430	1	2.0E-76	4758053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
1528	14273	28960	1.91	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1528	14273	28961	1.91	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1921	14658	27368	0.91	2.0E-76	AA253954.1	EST_HUMAN	zs60h11.s1 Stratiopene achizo brain S11 Homo sapiens cDNA clone IMAGE:701825 3'
2846	15014	28261	3.34	2.0E-76	P23266	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN F5
3291	18052	28701	2.06	2.0E-76	AA445992.1	EST_HUMAN	z564e02.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:780988 3' similar to SW:ITB5_HUMAN
3291	18052	28702	2.06	2.0E-76	AA445992.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
3291	18052	28702	2.06	2.0E-76	AA445992.1	EST_HUMAN	z564e02.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:780988 3' similar to SW:ITB5_HUMAN

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3469	16225	28879	0.97	2.0E-76	A1821149.1	EST_HUMAN	ae83b02.y5 Strategene lung (#637210) Homo sapiens cDNA clone IMAGE:869163 5' similar to TR:O14591
4114	13082	25725	1.23	2.0E-76	D84295.1	NT	O14591 SIMILARITY TO P22059 ; Human mRNA for possible protein TPRDII, complete cds
4895	17622	30240	6.21	2.0E-76	AW879618.1	EST_HUMAN	QV3-OT0028-220300-132-b11 OT0028 Homo sapiens cDNA
5056	17774	30390	1.49	2.0E-76	5031680	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
5226	18033		1.6	2.0E-76	AF127845.1	NT	Gorilla gorilla olfactory receptor (GGO18) gene, partial cds
5531	18329	31233	6.47	2.0E-76	AB020004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
7334	20016	33094	0.75	2.0E-76	11428908	NT	Homo sapiens A kinase (PRKA) anchor protein 10 (AKAP10), mRNA
7560	20230	33333	1.91	2.0E-76	11427410	NT	Homo sapiens TPCR86 protein (HSTPCR86P), mRNA
10182	22830	36045	3.53	2.0E-76	11437211	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC83160), mRNA
10839	23521	36763	3.58	2.0E-76	7549807	NT	Homo sapiens HIRA interacting protein 4 (dnal-like) (HIRIP4), mRNA
4265	17006	29638	2.38	1.0E-76	D03874.1	NT	Human mRNA for HMG-1, complete cds
4265	17006	29639	2.38	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5362	18184	30849	6.12	1.0E-76	BE796537.1	EST_HUMAN	601593896F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
6150	18927		0.72	1.0E-76	AA333207.1	EST_HUMAN	EST37301 Embryo, 8 week 1 Homo sapiens cDNA 5' end
6825	19486	32508	4.53	9.0E-77	BE889525.1	EST_HUMAN	601512435F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3913737 5'
12644	24941		1.4	9.0E-77	BE410364.1	EST_HUMAN	601302333F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3638753 5'
182	12994	25633	0.92	8.0E-77	R83144.1	EST_HUMAN	yp11h02.r1 Scores breast 3NbhBst Homo sapiens cDNA clone IMAGE:187155 5' similar to
4486	17221	29849	1.09	8.0E-77	BF205181.1	EST_HUMAN	SP-ANKB_HUMAN Q01484 ANKYRIN, BRAIN VARIANT 1 ;
5366	18168	30854	1.74	8.0E-77	4506230	NT	601866926F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5'
11360	24048	37351	1.91	8.0E-77	AA019770.1	EST_HUMAN	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mav34 homolog) (PSMD7) mRNA
11360	24048	37352	1.91	8.0E-77	AA019770.1	EST_HUMAN	z662e02.r1 Scores retina N2b4-IR Homo sapiens cDNA clone IMAGE:363578 5'
12620	24925	31008	4.02	8.0E-77	R00245.1	EST_HUMAN	z662e02.r1 Scores retina N2b4-IR Homo sapiens cDNA clone IMAGE:363578 5'
1922	14659	27370	2.4	7.0E-77	AA625755.1	EST_HUMAN	ye69f04.s1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains
2411	15132	27868	2.52	7.0E-77	4505944	NT	MER10 repetitive element ;
2411	15132	27869	2.52	7.0E-77	4505944	NT	z67f01.s1 Scores testis NHT Homo sapiens cDNA clone IMAGE:748392 3'
256	13064	25703	8.53	6.0E-77	4504600	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25KD) (POLR2E) mRNA
1534	14281	26989	3.22	6.0E-77	A1204068.1	EST_HUMAN	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25KD) (POLR2E) mRNA
1214	13964	26831	2.11	5.0E-77	AF041015.1	NT	Homo sapiens Interferon (alpha, beta and omega) receptor 2 (IFNAR2) mRNA
1339	14087	26763	1.77	5.0E-77	4557250	NT	q67h12.x1 Scores fetal lung NBHL19W Homo sapiens cDNA clone IMAGE:1745063 3'
2691	15400	28139	0.98	5.0E-77	AF162896.1	NT	7 Homo sapiens glucokinase (GCK) gene, exon 2 Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA Homo sapiens touristed-like kinase 1 (TLK1) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2767	15472	28214	0.89	5.0E-77	4503160	NT	Homo sapiens cullin 1 (CUL1) mRNA
3512	16268	28923	0.89	5.0E-77	8394518	NT	Homo sapiens ubiquitin specific protease 18 (USP18), mRNA
4655	17389	30022	2.47	5.0E-77	5031680	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
4655	17389	30023	2.47	5.0E-77	5031680	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
4884	17611	30231	2.96	5.0E-77	AL043953.1	EST_HUMAN	DKFZp434G1728_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G1728 5'
6686	18903	32842	0.57	5.0E-77	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
7730	20393	33508	0.59	5.0E-77	8923319	NT	Homo sapiens hypothetical protein FLJ20343 (FLJ20343), mRNA
8266	20960	34098	1.28	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
8266	20960	34100	1.28	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
9469	22078	35248	2.48	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
9469	22078	35250	2.48	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
10388	23034	36249	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
10388	23034	36250	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11784	24384	37716	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
11784	24384	37717	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
1965	14701	27417	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
1965	14701	27418	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10188	22836	36050	0.79	3.0E-77	H65167.1	EST_HUMAN	yu64g01.11 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 -;
10188	22836	36051	0.79	3.0E-77	H65167.1	EST_HUMAN	yu64g01.11 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 -;
10785	23468	36709	3.58	3.0E-77	BF359917.1	EST_HUMAN	PM3-MT0078-080800-005-g03 MT0078 Homo sapiens cDNA
1330	14079	26763	1.4	2.0E-77	AV784617.1	EST_HUMAN	AV784617 MDS Homo sapiens cDNA clone MDSBTF10 5'
1412	14180	26844	1.91	2.0E-77	AW987712.1	EST_HUMAN	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA
2084	14816	27548	1.13	2.0E-77	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
2096	14827	27590	6.23	2.0E-77	7706315	NT	Homo sapiens CGI-79 protein (LOC51694), mRNA
2802	15599	28053	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2802	15599	28054	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
4012	16758	29386	1.86	2.0E-77	BE044316.1	EST_HUMAN	hw43b05.x1 Soares_NFL_T_QBC S1 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2_HUMAN P10284 RETROVIRUS-RELATED GAG POLYPROTEIN ;
4379	17116	29749	0.74	2.0E-77	A013519.1	EST_HUMAN	hw22g02.x1 NC1_CGAP_Brm52 Homo sapiens cDNA clone IMAGE:2260466 3' similar to TR:O65245 O65245 F21E10.7 PROTEIN ;
4379	17116	29750	0.74	2.0E-77	A013519.1	EST_HUMAN	hw22g02.x1 NC1_CGAP_Brm52 Homo sapiens cDNA clone IMAGE:2260466 3' similar to TR:O65245 O65245 F21E10.7 PROTEIN ;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4557	17292		0.96	2.0E-77	4504068	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
4717	17449	30082	1.59	2.0E-77	AA633025.1	EST_HUMAN	ns68g12.s1 NCL_CGAP_P2 Homo sapiens cDNA clone IMAGE:1188838 similar to SW:RL29_HUMAN
5865	18652	31593	1.9	2.0E-77	BE288940.1	EST_HUMAN	P47914 60S RIBOSOMAL PROTEIN L29. [1] contains element MSR1 repetitive element;
6080	18859	31828	1.73	2.0E-77	BE787143.1	EST_HUMAN	601119852F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029436 5'
7074	19705	32829	15.45	2.0E-77	A1833003.1	EST_HUMAN	601476802F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3878505 5'
8427	21120	34259	0.82	2.0E-77	A1362707.1	EST_HUMAN	at74a09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2377720 3' similar to TR:Q13311
9428	22106	35280	5.05	2.0E-77	U50321.1	NT	q770-c09.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017380 3' similar to WP:F29D11.1
9428	22106	35281	5.05	2.0E-77	U50321.1	NT	CE05765 LOW DENSITY LIPID RECEPTOR-RELATED PROTEIN;
9895	22545	35738	0.47	2.0E-77	BF310349.1	EST_HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
9895	22545	35739	0.47	2.0E-77	BF310349.1	EST_HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
42	12870	25489	1.03	1.0E-77	AB033102.1	NT	601865183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
42	12870	25490	1.03	1.0E-77	AB033102.1	NT	601865183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
208	13074	25714	7.19	1.0E-77	4502168	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
268	13074	25715	7.19	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
855	15554	26298	17.31	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
855	15554	26297	17.31	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1912	14949	27360	0.9	1.0E-77	AW058119.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2445	15184	27902	1.32	1.0E-77	AB029024.1	NT	vw83e05.x1 Soares_thymus_NHFT11 Homo sapiens cDNA clone IMAGE:2536160 3'
3040	15806	28451	1.72	1.0E-77	4503300	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
4320	17059	29684	3.37	1.0E-77	7706299	NT	Homo sapiens 2,4-dienoyl CoA reductase 1, mitochondrial (DECR1), mRNA
4488	17223	29851	16.41	1.0E-77	AJ229041.1	NT	Homo sapiens CGI-60 protein (LOC51628), mRNA
4803	17338	29967	2.29	1.0E-77	6552322	NT	Homo sapiens 959 kb config between AML1 and CBR1 on chromosome 21q22; segment 1/3
5010	17732	30337	1	1.0E-77	7681849	NT	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-exon4, mRNA
5010	17732	30338	1	1.0E-77	7681849	NT	Homo sapiens KIAA0005 gene product (KIAA0005), mRNA
5839	18627	31561	2.45	1.0E-77	AF086944.1	NT	Homo sapiens KIAA0005 gene product (KIAA0005), mRNA
							Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5839	18627	31562	2.45	1.0E-77	AF086944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
5956	18738	31697	1.4	1.0E-77	M25844.1	NT	Human von Willebrand factor gene, exon 20
8356	19126	32120	0.82	1.0E-77	4885182	NT	Homo sapiens diaphanous (Drocephila, homodog) 1 (DIAPH1), mRNA
8053	19435	32450	21.7	1.0E-77	5881412	NT	Homo sapiens elastin (supravascular aortic stenosis, Williams-Beuren syndrome) (ELN), mRNA
7564	20234	33338	1.05	1.0E-77	11420159	NT	Homo sapiens cullin 1 (CUL1), mRNA
7663	20327	33437	0.69	1.0E-77	X04571.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
9165	21835	35000	0.62	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
9165	21835	35001	0.62	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
10421	23067	36288	3.1	1.0E-77	X84354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
10421	23067	36289	3.1	1.0E-77	AB029396.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
10449	23095	36328	2.65	9.0E-78	AB029396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
6354	18124	32117	3.11	8.0E-78	AW753302.1	EST_HUMAN	RC3-CT0254-280989-011-505 CT0254 Homo sapiens cDNA
6354	19124	32118	3.11	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-505 ET0023 Homo sapiens cDNA
84	12910	25548	1.87	6.0E-78	AU116789.1	EST_HUMAN	RC2-ET0023-080500-012-505 ET0023 Homo sapiens cDNA
84	12910	25549	1.87	6.0E-78	AU116789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
6465	19232	25663	2.54	6.0E-78	11432710	NT	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
212	13024	25663	0.72	5.0E-78	11422468	NT	Homo sapiens GDNF family receptor alpha 1 (GFRA1), mRNA
2567	15281	28019	5.53	5.0E-78	AW673424.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
3380	16139	28797	3.81	5.0E-78	M55586.1	NT	ba64h03.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900405 5' similar to WP:Y4886A.6
5327	18130	30789	2.33	5.0E-78	AF038536.1	NT	CE22121
5488	18287	31183	11.12	5.0E-78	11416585	NT	Human collagenase type IV (CLG4) gene, exon 6
7054	19745	32808	2.23	5.0E-78	AW963120.1	EST_HUMAN	Homo sapiens Best's macular dystrophy related protein mRNA, partial cds
8981	21671	34821	6.78	5.0E-78	U60889.1	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
8982	21672	34822	3.31	5.0E-78	BE960836.1	EST_HUMAN	EST365190 IMAGE resequences, MAGB Homo sapiens cDNA
1115	13872	26531	1.07	4.0E-78	AL043314.2	EST_HUMAN	Human lysosomal alpha-mannosidase (manB) gene, exon 7
1508	14254	26940	1.78	4.0E-78	AL355841.1	NT	601648061F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:3931887 5'
1644	14390	27079	1.09	4.0E-78	AI985094.1	EST_HUMAN	DKFZp434N0323_1 434 (synonym: hba3) Homo sapiens cDNA clone DKFZp434N0323 5'
2316	15041	27779	2.08	4.0E-78	AF107405.1	NT	Novel human gene mapping to chromosome 22
4288	17027	28652	1.73	4.0E-78	7656878	NT	wf87b12.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2495615 3' similar to SW:WAP_PIG
4722	17454	30088	2.61	4.0E-78	4505806	NT	O49655 WHEY ACIDIC PROTEIN PRECURSOR ;
4722	17454	30089	2.61	4.0E-78	4505808	NT	Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
5681	18474	31391	1.41	4.0E-78	11420732	NT	Homo sapiens syncytin (LOC30810), mRNA
							Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
							Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
							Homo sapiens SFRS3 protein kinase 2 (SRPK2), mRNA

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7390	20069	33148	0.58	4.0E-78	4508738	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1), mRNA
8752	21444	34591	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230), mRNA, complete cds
8752	21444	34592	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230), mRNA, complete cds
8268	22022	35192	0.6	4.0E-78	11417251	NT	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), mRNA
10342	22989	36206	1.98	4.0E-78	11580151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10342	22989	36207	1.98	4.0E-78	11580151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
11398	24002	37305	5.18	4.0E-78	AF169148.1	NT	Homo sapiens e-CaBP1 (CABP1), mRNA, complete cds
11547	24146	37458	2.15	4.0E-78	X05844.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12517	24868	31018	3.57	4.0E-78	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
157	12972	28610	1.39	3.0E-78	AF085901.1	NT	Homo sapiens eRF1 gene, complete cds
157	12972	28611	1.39	3.0E-78	AF085901.1	NT	Homo sapiens eRF1 gene, complete cds
3746	18499		0.98	3.0E-78	AU140804.1	EST_HUMAN	Homo sapiens eRF1 gene, complete cds
3798	16548	29181	0.72	3.0E-78	4507334	NT	AU140804 PLAGE3 Homo sapiens cDNA clone PLACE3000373 5'
4084	16548	29181	0.96	3.0E-78	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
5094	17813	30430	0.93	3.0E-78	4506328	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
10186	22834		5.14	3.0E-78	BE144758.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1), mRNA
10902	23582	36832	1.97	3.0E-78	BE150318.1	EST_HUMAN	CMO-HT0180-041099-065-c07 HT0180 Homo sapiens cDNA
3119	15884		2.17	2.0E-78	U04489.1	NT	QV0-HT0367-150200-114-g09 HT0367 Homo sapiens cDNA
3395	16743		1.87	2.0E-78	AA311872.1	EST_HUMAN	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 20
7367	20047	33128	1.54	2.0E-78	AW402306.1	EST_HUMAN	EST182583 Jurkat T-cells VI Homo sapiens cDNA 5' and
7367	20047	33127	1.54	2.0E-78	AW402306.1	EST_HUMAN	UIHF-BK0-eaf-g-10-Q.U.I.1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'
7631	20297	33405	3.99	2.0E-78	BF689800.1	EST_HUMAN	UIHF-BK0-eaf-g-10-Q.U.I.1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'
7940	20635	33762	2.33	2.0E-78	AV714177.1	EST_HUMAN	602186529F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4298599 5'
8351	21044	34180	1.4	2.0E-78	AI557509.1	EST_HUMAN	AV714177 DCB Homo sapiens cDNA clone DCBAW09 5'
8351	21044	34181	1.4	2.0E-78	AI557509.1	EST_HUMAN	Pt2.1_16_B07.r tumor2 Homo sapiens cDNA 3'
							Pt2.1_16_B07.r tumor2 Homo sapiens cDNA 3'
11017	23689	36952	3.27	2.0E-78	AI197837.1	EST_HUMAN	q150h05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1859961 3' similar to WP:R90.1
11088	23738	37012	3.89	2.0E-78	N68951.1	EST_HUMAN	CE06325 PROTEIN KINASE ;
4123	16865	29491	3.07	1.0E-78	4507098	NT	z848f12.x1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:296823 3'
4123	16865	29492	3.07	1.0E-78	4507098	NT	Homo sapiens synaptosomal-associated protein, 25kD (SNAP25), mRNA
5222	18029	30655	2.83	1.0E-78	11417304	NT	Homo sapiens synaptosomal-associated protein, 25kD (SNAP25), mRNA
6857	17934	30570	0.76	1.0E-78	AV648698.1	EST_HUMAN	Homo sapiens GAP-like protein (LOC51306), mRNA
7736	20401	33517	0.55	1.0E-78	AU122163.1	EST_HUMAN	AV648698 GLC Homo sapiens cDNA clone GLCBM001 3'
							AU122163 MAMMA1 Homo sapiens cDNA clone MAMMA1001785 5'

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8059	20753		3.28	1.0E-78	U52373.1	NT	Human serine/threonine kinase MINB (mrnb) mRNA, complete cds
12045	24565	31117	1.39	1.0E-78	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12477	25244	30718	1.55	1.0E-78	AI650919.1	EST_HUMAN	w20b08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2288615 3'
4650	17384	30016	4.05	9.0E-79	11525891	NT	Homo sapiens peptide YY (PYY), mRNA
4811	17542	30106	8.05	9.0E-79	BE000837.1	EST_HUMAN	RC2-BN0074-090300-014-c12 BN0074 Homo sapiens cDNA
5346	18149	30828	16.87	9.0E-79	AB028070.1	NT	Homo sapiens mRNA for activator of S phase Kinase, complete cds
6248	18022	31994		9.0E-79			
7251	25108		2.38	9.0E-79	5454145	NT	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5) (UBE2E3) mRNA
7473	20146	33239	0.99	9.0E-79	11424427	NT	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
7473	20146	33239	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
8244	20838	34074	0.49	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
8244	20838	34074	0.49	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8981	21652	34802	5.1	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8981	21652	34803	5.1	9.0E-79	11417260	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9280	22034	35206	0.58	9.0E-79	11417260	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
10283	22911	36121	0.82	9.0E-79	11438843	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10318	22865	36182	1.73	9.0E-79	AF062346.1	NT	Homo sapiens hypothetical protein FLJ20535 (FLJ20535), mRNA
10318	22865	36183	1.73	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
11001	23674	36930	3.13	9.0E-79	AY008273.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
11497	24098	37410	3.55	9.0E-79	11423827	NT	Homo sapiens TRAF6-regulated IKK activator 1 beta Uev1A mRNA, complete cds
11497	24098	37411	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apicoid homolog 2 (SWAP2), mRNA
3725	16478	29115	0.91	8.0E-79	AL163210.2	NT	Homo sapiens suppressor of white apicoid homolog 2 (SWAP2), mRNA
11966	17910	30598	1.82	8.0E-79	8567387	NT	Homo sapiens chromosome 21 segment HS21C010
3247	16009	28880	26.39	7.0E-79	BE619848.1	EST_HUMAN	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
11899	24466		4.32	9.0E-79	AA099828.1	EST_HUMAN	494e04.s1 Soares_fetal_liver_splice_1NFLS_31 Homo sapiens cDNA clone IMAGE:3875657 3'
11478	24079	37390	2.52	5.0E-79	AL163282.2	NT	TR:Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ;
3173	15936		1.49	4.0E-79	8022325	NT	Homo sapiens chromosome 21 segment HS21C082
305	13109	25749	1.28	3.0E-79	AF114488.1	NT	Homo sapiens hypothetical protein FLJ10283 (FLJ10283), mRNA
957	13722	26388	3.85	3.0E-79	AF232708.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3095	15860	28501	1.51	3.0E-79	U09410.1	NT	Homo sapiens cell-line ba201a chloride ion current inducer protein (Cin) gene, complete cds
5277	18082	30738	5.24	3.0E-79	AF110322.1	NT	Human zinc finger protein ZNF131 mRNA, partial cds
5637	18432	31345	1.24	3.0E-79	AB020689.1	NT	Homo sapiens MSTP016 (MST016) mRNA, complete cds
							Homo sapiens mRNA for KIAA0892 protein, partial cds

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5662	18457	31371	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3884554 5'
5662	18457	31372	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3884554 5'
5682	18476	31392	3.56	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
5682	18475	31393	3.56	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
5646	19408	32422	0.67	3.0E-79	BE256883.1	EST_HUMAN	601112055F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352885 5'
5960	19442	32457	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
5960	19442	32458	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
7726	20389	33503	0.76	3.0E-79	8012456	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8064	20758	33887	1.61	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
9303	21970	35144	1.33	3.0E-79	10835036	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
10245	22863		1.24	3.0E-79	AV608115.1	EST_HUMAN	Homo sapiens tetrahydropteridine repeat domain 3 (TTC3), mRNA
10768	23452	36894	1.52	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
10768	23452	36895	1.52	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
281	13088		0.99	2.0E-79	H63126.1	EST_HUMAN	y48f03.s1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:208541 3'
619	13398	26033	1.8	2.0E-79	BE379828.1	EST_HUMAN	601159415F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511107 5'
907	13674	26339	2.28	2.0E-79	4757941	NT	Homo sapiens BCL2-like 2 (BCL2L2), mRNA
1012	13772		2.09	2.0E-79	AI523747.1	EST_HUMAN	th19h07.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2118685 3'
1781	14522	27228	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
1781	14522	27227	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
2144	14874	27807	5.93	2.0E-79	4585963	NT	Homo sapiens phosphodiesterase 9A, cGMP-specific, rod, alpha (PDE9A), mRNA
2144	14874	27808	5.93	2.0E-79	4585963	NT	Homo sapiens phosphodiesterase 9A, cGMP-specific, rod, alpha (PDE9A), mRNA
2189	14918	27852	1.07	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
2721	15428	28166	1.09	2.0E-79	AB023154.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
3893	16843	29283	0.83	2.0E-79	AF170492.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
4144	16886	29517	1.09	2.0E-79	AJ271408.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
5395	16382		1.22	2.0E-79	AA312223.1	EST_HUMAN	EST182926 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, coelimid B0303.15
5840	18435	31348	0.8	2.0E-79	11181769	NT	Homo sapiens X transporter protein 3 (XT3), mRNA
6149	18926	31896	1.14	2.0E-79	AB020637.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
6864	17941	30577	0.89	2.0E-79	AF263613.1	NT	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds
7067	19758	32822	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript variant 4, mRNA
7067	19758	32823	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript variant 4, mRNA
7996	20604	33821	1.08	2.0E-79	4506442	NT	Homo sapiens retinoblastoma-like 1 (p107) (RBL1) mRNA

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8415	21108	34247	2.25	2.0E-79	11427428	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
8884	21356	34503	0.58	2.0E-79	89232248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8884	21358	34504	0.58	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8902	21593	34734	1.05	2.0E-79	11432184	NT	Homo sapiens similar to ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9 (H. sapiens) (LOC83961), mRNA
9892	22640	35850	1.44	2.0E-79	S72869.1	NT	[H4(D10S170)] putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
9902	22640	35851	1.44	2.0E-79	S72869.1	NT	[H4(D10S170)] putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
10696	23389	36627	12.34	2.0E-78	U07819.1	NT	Human contactin 1 precursor (CNTN1) mRNA, complete cds
10956	23632	36880	4.05	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
10956	23632	36881	4.05	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
11836	17908	30594	2.16	2.0E-79	7662357	NT	Homo sapiens KIAA0879 protein (KIAA0879), mRNA
12018	24548	31108	5.19	2.0E-79	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
12238	24690	31075	2.89	2.0E-79	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
8492	25091		3.76	1.0E-79	BF363071.1	EST_HUMAN	MRO-NN0087-280600-017-b10 NN0087 Homo sapiens cDNA
8143	20837	33969	0.78	1.0E-79	BE394211.1	EST_HUMAN	601311517F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632809 5'
11823	24220	37543	2.05	1.0E-79	BF087405.1	EST_HUMAN	QV2-HT0640-120900-368-a05 HT0640 Homo sapiens cDNA
12047	25333		1.8	1.0E-79	A1460115.1	EST_HUMAN	ar79a04.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151438 3'
3143	15907	28551	2.35	9.0E-80	AA725848.1	EST_HUMAN	at23a05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
3143	15907	28552	2.35	9.0E-80	AA725848.1	EST_HUMAN	at23a05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
9912	22561	35757	1.14	9.0E-80	BE788603.1	EST_HUMAN	601581652F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3636061 5'
11245	23907	37199	8.66	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (SLC7A8), mRNA
11245	23907	37200	8.66	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 8 (SLC7A8), mRNA
3588	16342		1.31	8.0E-80	U94387.1	NT	Homo sapiens Y chromosome spermatogenesis candidate protein (RBM) pseudogene mRNA, partial cds
7504	20175	33268	3.07	8.0E-80	11422847	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
7504	20175	33269	3.07	8.0E-80	11422847	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
9302	21969	35142	1.13	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9302	21969	35143	1.13	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
880	13649	26318	1.12	6.0E-80	AK422197.1	EST_HUMAN	t58d02.x1 NCL_OGAP_Bim23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN Q16795 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR;
1638	14384	27071	2.22	6.0E-80	U64998.1	NT	Homo sapiens NRD convertase mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4252	16993	29620	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
4252	16993	29621	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
5712	18505	31427	1.79	6.0E-80	11421482	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), mRNA
5884	18765	31729	3.37	6.0E-80	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
6135	18913	31862	4.69	6.0E-80	11436736	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
6179	18956		1.17	6.0E-80	7682393	NT	Homo sapiens KIAA0941 protein (KIAA0941), mRNA
6230	19004	31980	0.96	6.0E-80	M18533.1	NT	Homo sapiens dystrophin (DMD) mRNA, complete cds
8723	21415	34558	3.22	6.0E-80	11528484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8723	21415	34559	3.22	6.0E-80	11528484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8917	21608	34761	1.51	6.0E-80	AL183301.2	NT	Homo sapiens chromosome 21 segment HS21C101
9259	21938	35113	0.83	6.0E-80	AF161495.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exon 21
9761	22412	35619	1.48	6.0E-80	U20211.1	NT	Homo sapiens Cyf19 mRNA, complete cds
10861	23541	36788	2.83	6.0E-80	11427368	NT	Human peroxisome targeting signal 2 receptor (Pex7) mRNA, complete cds
11167	23652	37138	26.56	6.0E-80	AF228730.1	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11702	24287	37623	1.59	6.0E-80	U76560.1	NT	Homo sapiens Cyf19 mRNA, complete cds
11796	24347	37677	1.5	6.0E-80	AF102285.1	NT	Human peroxisome targeting signal 2 receptor (Pex7) mRNA, complete cds
11802	24392	37725	2.26	6.0E-80	AB018260.1	NT	Homo sapiens N-acetylglucosamine-phosphate mutase mRNA, complete cds
11802	24392	37726	2.26	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
						NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11906	13649	26318	1.86	6.0E-80	AI422197.1	EST_HUMAN	U59402.x1 NCL_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN Q16795 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR;
12028	25217						Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12219	24678		2.42	6.0E-80	AF240786.1	NT	Homo sapiens GST gene for cerebroside sulfoxidase, exon 1, 2, 3, 4, 5
12707	25341		5.78	6.0E-80	AB029900.1	NT	Homo sapiens GST gene for cerebroside sulfoxidase, exon 1, 2, 3, 4, 5
			1.94	6.0E-80	AJ133127.1	NT	Homo sapiens GST gene for cerebroside sulfoxidase, exon 1, 2, 3, 4, 5
12804	25051	30858	1.35	6.0E-80	AF240786.1	NT	Homo sapiens GST gene for cerebroside sulfoxidase, exon 1, 2, 3, 4, 5
574	13354	25983	0.74	5.0E-80	4506228	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
815	13586	26253	1.97	5.0E-80	AF108830.1	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA
815	13586	26254	1.97	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MN1B) mRNA, complete cds
1166	13920		2.39	5.0E-80	X91647.1	NT	Homo sapiens serine-threonine protein kinase (MN1B) mRNA, complete cds
1439	14186		2.26	5.0E-80	AL163283.2	NT	H sapiens nct1 gene (exon 12)
2361	15083	27821	1.99	5.0E-80	U89358.1	NT	Homo sapiens chromosome 21 segment HS21C083
2431	15152	27896	1.65	5.0E-80	AB037855.1	NT	Human (3') ribot protein homolog mRNA, complete cds
						NT	Homo sapiens mRNA for KIAA1434 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2797	16602	28242	1.67	5.0E-80	4504292	NT	Homo sapiens H3 histone family, member J (H3FJ) mRNA
4018	16764	28393	1.37	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4018	16764	28394	1.37	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4900	17627	30244	1.28	5.0E-80	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
8255	20949	34086	1.04	5.0E-80	8910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
9157	21898	35056	8.77	4.0E-80	F25915.1	EST_HUMAN	HSPD13155 HM3 Homo sapiens cDNA clone s4000045F03
211	13023		8.96	3.0E-80	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4661	17395	30030	1.7	3.0E-80	BF085009.1	EST_HUMAN	PMO-GN0018-040900-002-E03 GN0018 Homo sapiens cDNA
4850	17580		3.77	3.0E-80	BE817465.1	EST_HUMAN	QV4-BN0263-040900-241-g10 BN0263 Homo sapiens cDNA
6730	18522	31443	2.88	3.0E-80	AI091675.1	EST_HUMAN	cc23e12.x1 Soares_NSF_F8_pW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1567054 3' similar to TR:O35790 O35790 PIG-L;
1790	14530	27238	5.08	2.0E-80	R35321.1	EST_HUMAN	yg65a08.t1 Soares Infant brain INIB Homo sapiens cDNA clone IMAGE:38080 5'
1853	14591	27307	1.19	2.0E-80	AI444821.1	EST_HUMAN	RE14B7 subcloned rat cDNA library/Homo sapiens cDNA clone RET4B7
2049	14782	27609	5.82	2.0E-80	AL043116.2	EST_HUMAN	DKFZp434D1323 t1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434D1323 5'
6708	19823	32667	0.93	2.0E-80	AA582952.1	EST_HUMAN	nm8001.s1 NCI_CGAP_C08 Homo sapiens cDNA clone IMAGE:1080177 3'
6813	19474	32496	1.71	2.0E-80	11421930	NT	Homo sapiens Gdgl transport complex protein (90 kDa) (GTC90), mRNA
7151	19838	32908	1.46	2.0E-80	T75215.1	EST_HUMAN	yc86f12.t1 Soares Infant brain INIB Homo sapiens cDNA clone IMAGE:22851 5' similar to SP:K1CR_XENLA P08902 KERATIN, TYPE I CYTOSKELETAL ENDO B;
9057	21746	34805	1.41	2.0E-80	AW964270.1	EST_HUMAN	EST376343 IMAGE resequences, MAGH Homo sapiens cDNA
9688	22320	35516	1	2.0E-80	AJ007378.1	NT	Homo sapiens GGT gene, exon 6
10780	23463	36705	4.49	2.0E-80	AA308382.1	EST_HUMAN	z170f12.t1 Soares Testis_NHT Homo sapiens cDNA clone IMAGE:72727 5' similar to TR:G191315
331	13132		2.25	1.0E-80	AL163303.2	NT	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN.;
782	13554	28215	1.37	1.0E-80	AF231920.1	NT	Homo sapiens chromosome 21 segment HS21C103
1947	14682		2.44	1.0E-80	AJ732656.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
5060	17779	30397	0.99	1.0E-80	4557610	NT	nm01112.x5 NCI_CGAP_C08 Homo sapiens cDNA clone IMAGE:1076495 3' similar to contains OFR.t1 OFR repetitive element;
5244	18050		6.43	1.0E-80	BE366615.1	EST_HUMAN	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
5881	18667	31608	6.58	1.0E-80	L10347.1	NT	G01274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615433 5'
6406	19175	32174	1.36	1.0E-80	5174540	NT	Human pro-alpha1 type II collagen (COL2A1) gene exons 1-54, complete cds
7106	19704	32850	0.95	1.0E-80	AJ224172.1	NT	Homo sapiens maleate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
7472	20145	33237	2.53	1.0E-80	AB49731.1	EST_HUMAN	Homo sapiens mRNA for lipophilin B
7472	20145	33238	2.53	1.0E-80	AB49731.1	EST_HUMAN	wq25c05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'
						EST_HUMAN	wq25c05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8130	20824	33960	2.84	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8901	21293	34435	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8901	21293	34436	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9185	21855	35019	1.21	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
9185	21855	35020	1.21	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
10325	22972	36192	0.95	1.0E-80	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10548	23244	36479	5.25	1.0E-80	11841278	NT	Homo sapiens similar to rat myomegalin (LOC84182), mRNA
10548	23244	36480	5.25	1.0E-80	11841278	NT	Homo sapiens similar to rat myomegalin (LOC84182), mRNA
12498	24719	31051	1.57	1.0E-80	11417901	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
10583	23278	36515	3.08	1.0E-80	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
10583	23278	36516	1.46	8.0E-81	AI251752.1	EST_HUMAN	qf80g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854298 3'
11102	23772	37048	1.46	8.0E-81	AI251752.1	EST_HUMAN	qf80g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854298 3'
7162	19839	32908	3.58	7.0E-81	AB22115.1	EST_HUMAN	601310531F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632070 5'
4354	17092	29726	5.26	6.0E-81	BE256829.1	EST_HUMAN	z891c08.x5 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:298918 3'
4354	17092	29727	5.26	6.0E-81	BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
5201	18009	30630	2.1	6.0E-81	4501848	NT	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
5201	18009	30631	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7489	20161	33253	0.97	6.0E-81	AF038660.1	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
9136	21824	34989	1.36	6.0E-81	AA360017.1	EST_HUMAN	Homo sapiens chromosome 1p33-p34 beta-1,4-galactosyltransferase mRNA, complete cds
11800	24390	37723	1.61	6.0E-81	BE369092.1	EST_HUMAN	EST69129 Fetal lung II Homo sapiens cDNA 5' end
12430	24803	31041	2.29	6.0E-81	BF679022.1	EST_HUMAN	601312522F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3659284 5'
12430	24803	31042	2.29	6.0E-81	BF679022.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
2214	14942	27882	2.8	5.0E-81	BE268042.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
8311	21005	34143	1.83	5.0E-81	AB007923.1	NT	601125505F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345480 5'
8311	21005	34144	1.83	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9548	22201	35383	0.77	5.0E-81	M60316.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9548	22201	35384	0.77	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11577	24176	37491	2.23	5.0E-81	9506634	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11839	24423	37784	1.3	5.0E-81	11526341	NT	Homo sapiens hypothetical protein (FLJ11045), mRNA
696	13461	26109	2.03	4.0E-81	AI521435.1	EST_HUMAN	Homo sapiens armadillo repeat gene deletes in velocardiofacial syndrome (ARVCF), mRNA
1815	14555	27270	1.31	4.0E-81	AW779612.1	EST_HUMAN	tn80e12.x1 NCL_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2122702 3' similar to TR:Q85560 Q85560
							hn98a02.x1 NCL_CGAP_Co14 Homo sapiens cDNA clone IMAGE:3035907 3' similar to SW:COPIG_BOVIN
							P53620 COATOMER GAMMA SUBUNIT.

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3168	15631	28580	3.58	4.0E-81	AB037768.1	NT	Homo sapiens mRNA for KIAA1345 protein, partial cds
3619	16372	29013	0.88	4.0E-81	AW004608.1	EST_HUMAN	ws90h03.x1 NCL_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2505269 3' similar to TR:O43815 O43815 STRIATIN;
4139	16881	29509	2.28	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4139	16881	29510	2.28	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4360	17098	29733	1.33	4.0E-81	8923209	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
7177	19883	32934	1.11	4.0E-81	4757893	NT	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delta subunit (CACNA2) mRNA
7299	19882	33058	0.57	4.0E-81	11420544	NT	Homo sapiens ets variant gene 1 (ETV1), mRNA
8185	20879	34016	3.59	4.0E-81	X06989.1	NT	Human mRNA for amyloid A4(751) protein
8443	21135	34271	3.43	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
8443	21135	34272	3.43	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
9128	21814	34980	6.1	4.0E-81	AB018001.1	NT	Homo sapiens mRNA for Death-associated protein kinase 2, complete cds
10001	22849	35861	1.53	4.0E-81	11425281	NT	Homo sapiens ligase I, DNA, ATP-dependent (LIG1), mRNA
10070	22718	35935	0.71	4.0E-81	11439085	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10070	22718	35936	0.71	4.0E-81	11439085	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
11140	23807	37088	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B) mRNA
11140	23807	37087	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B) mRNA
11928	25280	30731	3.63	4.0E-81	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11928	25280	30732	3.63	4.0E-81	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12463	24831	31030	1.53	4.0E-81	11417871	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12463	24831	31031	1.53	4.0E-81	11417871	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12597	24911	31004	4.82	4.0E-81	11417974	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
1244	13963	28958	12.36	3.0E-81	Y18000.1	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
1244	13963	28959	12.36	3.0E-81	Y18000.1	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
2371	15083	27832	1.23	3.0E-81	AF077188.1	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
2898	15755	28400	5.83	3.0E-81	4506280	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2898	15755	28401	5.83	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2837	15605	28254	2.97	2.0E-81	BE784636.1	EST_HUMAN	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
2837	15605	28255	2.97	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3877121 5'
3755	16507	29144	0.71	2.0E-81	AW611542.1	EST_HUMAN	601474072F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3877121 5'
7857	20552	33678	0.6	2.0E-81	8923389	NT	hg85c01.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2952384 3'
							Homo sapiens hypothetical protein (LOC55586), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1402	14149	26829	1.13	1.0E-81	W26539.1	EST_HUMAN	33f3 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
3844	16397	28037	1.07	1.0E-81	AW980658.1	EST_HUMAN	EST1372729 IMAGE resequences, MAGF Homo sapiens cDNA
4479	17214	29839	3.56	1.0E-81	AA040370.1	EST_HUMAN	2k45f09.r1 Soares_pregnant_uterus_NihHPU Homo sapiens cDNA clone IMAGE:485825 5' similar to
4900	17335	29984	6.89	1.0E-81	BE047996.1	EST_HUMAN	PIR:S52437 S52437 CDP-diacetylcard synthase - fruit fly;
5157	17890	37795	4.89	1.0E-81	U87928.1	NT	Iz45c04.y1 NCI_CGAP_Brm52 Homo sapiens cDNA clone IMAGE:2291526 5'
5269	18075	30704	4.1	1.0E-81	11432968	NT	Human acetylcholinesterase (AChE) gene, exon 3
5289	18076	30705	4.1	1.0E-81	11432968	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5415	18214	30922	0.85	1.0E-81	AA255589.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5568	18366	31273	3.47	1.0E-81	U52351.1	NT	zr55d06.r1 Soares_NihHPU_S1 Homo sapiens cDNA clone IMAGE:882475 5' similar to SW:PR12_HUMAN
5588	18395	31274	3.47	1.0E-81	U52351.1	NT	P49843 DNA PRIMASE 58 KD SUBUNIT ;
6054	18834	31796	1.91	1.0E-81	BF674841.1	EST_HUMAN	Homo sapiens arm-repeat protein NPRAP/neurojungin (GTNND2) mRNA, partial cds
6453	19221	32218	0.59	1.0E-81	11420965	NT	Homo sapiens arm-repeat protein NPRAP/neurojungin (GTNND2) mRNA, partial cds
6453	19221	32219	0.59	1.0E-81	11420965	NT	602137864F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274535 5'
6639	19401	32416	0.87	1.0E-81	AJ133289.1	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
7689	20333	33444	8.45	1.0E-81	11432968	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
9676	22328	35523	5.09	1.0E-81	BE968278.1	EST_HUMAN	Homo sapiens cavedin-1/2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
9676	22328	35524	5.09	1.0E-81	BE968278.1	EST_HUMAN	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
9869	22519	35715	5.06	1.0E-81	BE564367.1	EST_HUMAN	601645051F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3930228 5'
							601645051F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3930228 5'
							601343180F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685483 5'
10003	22651	35863	1.59	1.0E-81	AA630784.1	EST_HUMAN	act14d06.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:856427 3' similar to
10005	22653	35865	3.27	1.0E-81	BE744545.1	EST_HUMAN	SW:YB36_YEAST P38126 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION ;
10005	22653	35868	3.27	1.0E-81	BE744545.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10405	23051	36269	1.59	1.0E-81	AW897550.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10860	23540	36787	2.9	1.0E-81	8923698	NT	CM3-NN0059-140400-147-a12 NN0059 Homo sapiens cDNA
11029	23700	36966	1.97	1.0E-81	AW844986.1	EST_HUMAN	Homo sapiens golgin-like protein (GLP), mRNA
11240	16397	28037	1.97	1.0E-81	AW844986.1	EST_HUMAN	MRO-C10006-250598-019 CT0006 Homo sapiens cDNA
11507	24108	37421	1.99	1.0E-81	BF204253.1	EST_HUMAN	MRO-C10006-250598-019 CT0006 Homo sapiens cDNA
12132	24622	31093	4.13	1.0E-81	11418138	NT	SW:YB36_YEAST P38126 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION ;
12	12839	25452	3.8	8.0E-82	AF161406.1	NT	601867714F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4110459 5'
							Homo sapiens phospholipase B mRNA editing protein (DJ742C19.2), mRNA
							Homo sapiens HSPC288 mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
104	12639	25452	2.45	8.0E-82	AF161406.1	NT	Homo sapiens HSPC288 mRNA, partial cds
257	13065	25704	1.1	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
795	13567	26227	2.83	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
867	13636	26306	0.84	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
1474	14221	26907	1.42	8.0E-82	AB037748.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
1654	14400	27089	1.43	8.0E-82	8715601	NT	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA
4219	16060	29585	0.9	8.0E-82	8923432	NT	Homo sapiens hypothetical protein FLJ20461 (FLJ20461), mRNA
1433	14180		1.7	7.0E-82	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
2769	15474	28216	1.2	7.0E-82	AU144050.1	EST_HUMAN	AU144050 HEMBA1 Homo sapiens cDNA clone HEMBA1000752 3'
11759	24350	37692	1.71	7.0E-82	AA663747.1	EST_HUMAN	aa663747.1 Stratagene echizo brain S11 Homo sapiens cDNA clone IMAGE:968342 3'
4104	16847	29473	0.71	5.0E-82	AA515512.1	EST_HUMAN	nt68e11.st NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:925196 3'
1666	14412	27103	49.82	4.0E-82	AF081484.1	NT	Homo sapiens alpha-tubulin isoform 1 mRNA, complete cds
5409	18208	30915	0.8	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-f08 HT0540 Homo sapiens cDNA
5409	18208	30916	0.8	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-f08 HT0540 Homo sapiens cDNA
5671	18466	31381	0.65	4.0E-82	M25833.1	NT	Human von Willebrand factor gene, exon 9
11718	24310	37633	11.61	4.0E-82	AI837300.1	EST_HUMAN	wp75e09.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2467624 3' similar to TR:O75276
12374	24773		5.05	4.0E-82	AF029701.2	NT	O75276 PKD1 ; Homo sapiens presenilin-1 gene, exons 1 and 2
271	13079	25721	21.65	3.0E-82	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
687	13482	26110	3.11	3.0E-82	BE005705.1	EST_HUMAN	RC2-BN0120-010400-013-f02 BN0120 Homo sapiens cDNA
770	13542	26203	5.7	3.0E-82	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
850	13620	26290	10.65	3.0E-82	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1039	13769		18.58	3.0E-82	AA725848.1	EST_HUMAN	al23e05.s1 Soares Testis NHT Homo sapiens cDNA clone 1343648 3'
1333	14082	26758	1.25	3.0E-82	AW875073.1	EST_HUMAN	RC8-PT0001-190100-021-B02 PT0001 Homo sapiens cDNA
1450	14197	26881	3.44	3.0E-82	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1894	14631	27341	1.91	3.0E-82	BE813232.1	EST_HUMAN	RC1-BN0005-230700-018-g04 BN0005 Homo sapiens cDNA
2000	14735	27459	1.53	3.0E-82	4501922	NT	Homo sapiens adenylyl cyclase activating polypeptide 1 (pituitary) receptor type 1 (ADCYAP1R1) mRNA
3266	16028		2.52	3.0E-82	5453811	NT	Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4864	17593	30216	0.98	3.0E-82	AA135979.1	EST_HUMAN	zn83b04.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565711 5' similar to SW:PAGT_BOVIN Q07537 POLYPEPTIDE N-ACETYL GALACTOSAMINYL TRANSFERASE ;
8052	20748	33878	3.14	3.0E-82	11425206	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8454	21146	34287	0.88	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
8454	21146	34288	0.88	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
9724	22375	35575	3.23	3.0E-82	AB029000.1	NT	Homo sapiens contactin 6 (CNTN6), mRNA
9724	22375	35576	3.23	3.0E-82	AB029000.1	NT	Homo sapiens contactin 6 (CNTN6), mRNA
583	13363	25990	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
583	13363	25991	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
1681	14425	27121	1.21	2.0E-82	AL048390.1	EST_HUMAN	Homo sapiens mRNA for KIAA0999 protein, partial cds
3827	16578	29210	1.25	2.0E-82	DB07675.1	NT	DKFZp434M117_r1_434 (synonym: htss3) Homo sapiens cDNA clone DKFZp434M117 5'
4208	16949	29575	1.17	2.0E-82	4504116	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4521	17256	29680	1.01	2.0E-82	AB029019.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4521	17256	29681	1.01	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1098 protein, partial cds
4816	17547	30172	2.85	2.0E-82	AF045555.1	NT	Homo sapiens mRNA for KIAA1086 protein, partial cds
5021	17742	30352	1.46	2.0E-82	4507580	NT	Homo sapiens wbscr1 (WBSR1) and wbscr5 (WBSR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
5021	17742	30353	1.46	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5384	18184	30874	5.65	2.0E-82	AB018270.1	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
6082	18861	31827	4.73	2.0E-82	AF234882.1	NT	Homo sapiens mRNA for KIAA0727 protein, partial cds
7581	25426		0.91	2.0E-82	AI476428.1	EST_HUMAN	Homo sapiens FAM44A1 splice variant a (FAM44A1) mRNA, complete cds
7705	20369	33482	0.85	2.0E-82	8923130	NT	tn21g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157272 3'
8204	20688	34035	2.16	2.0E-82	11321570	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8588	21260	34397	0.45	2.0E-82	7657340	NT	Homo sapiens slit (Drosophila) homolog 3 (SLIT3), mRNA
8588	21260	34398	0.45	2.0E-82	7657340	NT	Homo sapiens microchidia (mouse) homolog (MORC), mRNA
10009	22657	35870	1.84	2.0E-82	Y08032.1	NT	Homo sapiens microchidia (mouse) homolog (MORC), mRNA
10009	22657	35871	1.84	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11237	23900	37187	1.27	2.0E-82	11417191	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11237	23900	37188	1.27	2.0E-82	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
11279	23940	37233	4.45	2.0E-82	U80736.1	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
11279	23940	37234	4.45	2.0E-82	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
11750	24341	37670	1.91	2.0E-82	5031660	NT	Homo sapiens CAGF9 mRNA, partial cds
11957	24508		1.58	2.0E-82	N94950.1	EST_HUMAN	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
							zb31d10.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12465	24844		3.47	2.0E-82	AA011278.1	EST_HUMAN	z01g09.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429568 5'
12775	25029		1.95	2.0E-82	11418097	NT	Homo sapiens SRY (sex determining region Y)-box 10 (SOX10), mRNA
578	13358	25985	1.14	1.0E-82	11545921	NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
1186	13938		0.77	1.0E-82	BE885106.1	EST_HUMAN	601510859F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912207 5'
1263	14012	26679	3.1	1.0E-82	BE064396.1	EST_HUMAN	RC4.BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
1284	14013	26680	1.26	1.0E-82	AB011110.2	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
8841	21533	34678	1.13	1.0E-82	AB037838.1	NT	Homo sapiens mRNA for KIAA1417 protein, partial cds
9553	22206	35390	0.59	1.0E-82	AB014562.1	NT	Homo sapiens mRNA for KIAA0662 protein, partial cds
10145	22763		1.17	1.0E-82	BF516838.1	EST_HUMAN	U1H.BW1-ecaf-03-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084053 3'
10946	23337	36576	2.34	1.0E-82	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8615	21307	34449	4.51	9.0E-83	BF672220.1	EST_HUMAN	602150403F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4291561 5'
10174	22822	36039	0.53	9.0E-83	BE253347.1	EST_HUMAN	601117160F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3357734 5'
1392	14139	26816	3.33	8.0E-83	BE383973.1	EST_HUMAN	601273349F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614362 5'
1676	15623	27115	5.83	8.0E-83	N68851.1	EST_HUMAN	z048f12.s1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:285823 3'
1335	14084	26750	0.97	7.0E-83	AW385528.1	EST_HUMAN	QV4.LT0016-271200-068-h11 LT0016 Homo sapiens cDNA
2868	15635		1.88	7.0E-83	AA584655.1	EST_HUMAN	nc12h01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497 3' similar to contains Alu repetitive element
4765	17497		6.68	7.0E-83	BF221813.1	EST_HUMAN	7p37e07.x1-NCI_CGAP_Py28 Homo sapiens cDNA clone IMAGE:3647893 3' similar to TR:Q9Y316 Q9Y316 DJ207H1.1 ;
5960	18742	31702	0.58	7.0E-83	11426657	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
11717	24311	37834	1.4	7.0E-83	5720753	NT	Homo sapiens transcription factor CA150 (CA150) mRNA
11717	24311	37835	1.4	7.0E-83	5720753	NT	Homo sapiens transcription factor CA150 (CA150) mRNA
394	13179	25826	1.88	6.0E-83	M33320.1	NT	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
1779	14520	27224	1.5	6.0E-83	AW673088.1	EST_HUMAN	ht31h03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2833525 3' similar to SW:YBEB_HAEIN_P4471 HYPOTHETICAL PROTEIN HI0034. ;
3017	15783	28432	0.71	6.0E-83	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
3046	15812		1.08	6.0E-83	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
5211	18019	30841	2.02	6.0E-83	4507966	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
5933	18716	31674	1.52	6.0E-83	AJ010770.1	NT	Homo sapiens hypoxanthine gene, exons 1-50
7401	20079	33180	2.27	6.0E-83	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
9575	22228	35413	2.85	6.0E-83	4505314	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
9669	22321	35517	2.34	6.0E-83	11430047	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prip18 (PRP18), mRNA
9669	22321	35518	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prip18 (PRP18), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11517	24117		2.53	6.0E-83	AA486105.1	EST_HUMAN	ab14e10.s1 Strategene lung (#837210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains THR.12 THR repetitive element;
11908	24472		4.27	6.0E-83	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
925	13692		2.03	5.0E-83	U17883.1	NT	Human succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 5
2043	15526		1.55	5.0E-83	AF006305.1	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
3029	16382	29022	1.18	5.0E-83	AL133207.2	NT	Novel human gene mapping to chromosome X
3886	16636	29275	0.77	5.0E-83	4885190	NT	Homo sapiens deoxyribonuclease I (DNASE1), mRNA
5020	17741	30350	11.53	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5020	17741	30351	11.53	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5093	17812	30428	1.07	5.0E-83	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
5093	17812	30429	1.07	5.0E-83	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
625	13404	26039	1.72	4.0E-83	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
977	13742		4.9	3.0E-83	AA368311.1	EST_HUMAN	EST179542 Placenta I Homo sapiens cDNA similar to similar to endogenous retrovirus ERV9
2780	15485		1.33	3.0E-83	AA632854.1	EST_HUMAN	np87c07.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:1133292 similar to contains THR.12 THR repetitive element;
6483	19250		0.62	3.0E-83	AI217223.1	EST_HUMAN	qf73e06.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755682 3'
1792	14532	27240	1.85	2.0E-83	AA993492.1	EST_HUMAN	Q92814 MYELOBLAST KIAA0216 ;
1792	14532	27241	1.86	2.0E-83	AA993492.1	EST_HUMAN	Q92814 MYELOBLAST KIAA0216 ;
1918	14655	27365	4.07	2.0E-83	N66951.1	EST_HUMAN	Q92814 MYELOBLAST KIAA0216 ;
2656	15624	28268	1.1	2.0E-83	BE828694.1	EST_HUMAN	RC8-E10046-280600-013-H12 ET0046 Homo sapiens cDNA clone IMAGE:295823 3'
3263	16025		1.89	2.0E-83	11430834	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3756	16508		0.7	2.0E-83	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
4302	17041	29698	4.11	2.0E-83	AF202879.1	NT	Homo sapiens hematopoietic progenitor cell antigen CD34 precursor (CD34) mRNA, partial cds
4604	17339	29988	6.14	2.0E-83	7706398	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
4604	17339	29989	6.14	2.0E-83	7706398	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5189	17997	30620	0.9	2.0E-83	U06679.1	NT	Human carboxyembryonic antigen gene family member 18 (CGM18) gene, exons A1 and B1
5755	18547	31468	0.95	2.0E-83	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
5875	18662	31603	1.31	2.0E-83	BE885401.1	EST_HUMAN	601507482F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909068 5'
6647	19408	32423	1.12	2.0E-83	AF129533.1	NT	Homo sapiens F-box protein FB3b (FBL3B) mRNA, partial cds
7335	20017	33065	6.36	2.0E-83	AF129533.1	NT	Homo sapiens F-box protein FB3b (FBL3B) mRNA, partial cds

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7704	20387	33480	0.64	2.0E-83	BF105097.1	EST_HUMAN	601822090F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042318 5'
7742	20438	33560	0.78	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7742	20438	33561	0.78	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7888	20581	33710	1.79	2.0E-83	U68707.1	NT	Rattus norvegicus denah-180 mRNA, complete cds
8213	20907	34042	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
8213	20907	34043	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
9494	22147	35328	0.48	2.0E-83	5453881	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9494	22147	35329	0.48	2.0E-83	5453881	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9834	22582	35780	4.01	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
9834	22582	35781	4.01	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10016	22664	35881	1.39	2.0E-83	AU117659.1	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
10089	22737	35952	0.77	2.0E-83	AW505600.1	EST_HUMAN	UI-HF-BNO-arn-d-h-07-0-UI-1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081852 5'
10753	23438	36682	6.84	2.0E-83	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
10845	23527	36770	2.19	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135 J1 547 (synonym: hfbt1) Homo sapiens cDNA clone DKFZp547J135 5'
10845	23527	36771	2.19	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135 J1 547 (synonym: hfbt1) Homo sapiens cDNA clone DKFZp547J135 5'
12522	24889		3.85	2.0E-83	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1390	14137	26813	2.18	1.0E-83	4504326	NT	Homo sapiens hydroxycy-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1390	14137	26814	2.18	1.0E-83	4504326	NT	Homo sapiens hydroxycy-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1442	14189	26873	0.98	1.0E-83	AF105067.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
1442	14189	26874	0.98	1.0E-83	AF105067.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
3179	15942	28593	1.18	1.0E-83	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
3850	16900	29237	3.83	1.0E-83	AF053768.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
4220	16961	29586	1.99	1.0E-83	Z25822.1	NT	H. sapiens gene for mitochondrial dodecenoyl-CoA delta-isoomerase, exon 3
4831	17582	30184	3.35	1.0E-83	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
6598	19359	32373	1.65	1.0E-83	AI027614.1	EST_HUMAN	ov69b08.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1645431 3' similar to gb:M64241 QM
3778	16528	29167	3.8	7.0E-84	BE901209.1	EST_HUMAN	PROTEIN (HUMAN);
1272	14021	26887	3.5	6.0E-84	BE838884.1	EST_HUMAN	601678023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:368853 5'
1272	14021	26888	3.5	6.0E-84	BE838884.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
2390	15117	27854	8.26	6.0E-84	AA778574.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
5160	17892		3.33	6.0E-84	AL042863.2	EST_HUMAN	ae86a03.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971020 3'
							DKFZp434H0322 J1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434H0322 5'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5431	18230	30943	1.87	6.0E-84	AA897339.1	EST_HUMAN	al7g03.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1490500 3' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
5574	18371	31282	1.04	6.0E-84	11428718	NT	Homo sapiens acyl LDL receptor; SREC=scavenger receptor expressed by endothelial cells (SREC); mRNA
5574	18371	31283	1.04	6.0E-84	11428718	NT	Homo sapiens acyl LDL receptor; SREC=scavenger receptor expressed by endothelial cells (SREC); mRNA
7373	20053	33134	2.94	6.0E-84	BE810371.1	EST_HUMAN	PMO-LT0019-100800-004-F02 LT0019 Homo sapiens cDNA
7591	20259	33367	0.97	6.0E-84	AF038391.1	NT	Homo sapiens pre-mRNA splicing factor (PRP16) mRNA, complete cds
7972	20667	33789	2.37	6.0E-84	BE770199.1	EST_HUMAN	PM4-FT0054-160800-004-e10 FT0054 Homo sapiens cDNA
897	13472	26121	0.71	6.0E-84	AA382811.1	EST_HUMAN	EST08094 Testis 1 Homo sapiens cDNA 5' end
3013	15779		1.82	5.0E-84	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
6015	18798	31758	0.59	5.0E-84	AA167678.1	EST_HUMAN	zq38e07.r1 Strategene hNT neuron (#637233) Homo sapiens cDNA clone IMAGE:632100 5' similar to TR:G483915 G483915 RETROTRANSPOSABLE L1 ELEMENT LRE2 FROM CHROMOSOME 1Q.;
11633	24133	37438	3.17	5.0E-84	11428740	NT	Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RFX3), mRNA
11652	24249	37570	1.77	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11652	24249	37571	1.77	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11813	24401	37738	1.44	5.0E-84	11433530	NT	Homo sapiens tropomodulin 2 (neuronal) (TMOD2), mRNA
1389	14138	28812	2.19	4.0E-84	AI685321.1	EST_HUMAN	wa76c04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2302086 3' similar to SW:NRDC_HUMAN O43847 NARDILYSIN PRECURSOR;
4897	17624	30242	1.79	4.0E-84	AF069901.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
5475	18274	31168	1.38	4.0E-84	11388168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
5475	18274	31169	1.36	4.0E-84	11388168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
6175	16952	31825	1.88	4.0E-84	AF050650.1	NT	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
7547	20217	33319	14.38	4.0E-84	11421326	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
8809	21501	34647	1.21	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8809	21501	34648	1.21	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
10835	23517	36759	4.51	4.0E-84	AB032956.1	NT	Homo sapiens mRNA for KIAA1130 protein, partial cds
308	13112	25752	1.24	3.0E-84	AF026200.1	NT	Homo sapiens Bach1 protein homolog mRNA, partial cds
1953	14888	27401	1.15	3.0E-84	5453855	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
2001	14736	27460	2.41	3.0E-84	AL098880.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
3578	16333	28977	1.07	3.0E-84	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
3731	16483	29121	5.2	3.0E-84	AF014459.1	NT	Homo sapiens X-linked juvenile retinoschisis precursor protein (XLR51) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10790	23473		3.55	3.0E-84	AI983801.1	EST_HUMAN	wu20d05.x1 Soares_Dickgraefe_cdcn_NHCD Homo sapiens cDNA clone IMAGE:2520585 3' similar to
2098	14829	27563	6.94	2.0E-84	BE695397.1	EST_HUMAN	gibL05093 60S RIBOSOMAL PROTEIN L18A (HUMAN);
2098	14829	27564	6.94	2.0E-84	BE695397.1	EST_HUMAN	CM1-BT0795-190600-272-b08 BT0795 Homo sapiens cDNA
2944	15710	28362	9.31	2.0E-84	AF030843.1	EST_HUMAN	CM1-BT0795-180600-272-b08 BT0795 Homo sapiens cDNA
2962	15728	28378	0.77	2.0E-84	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
6439	18238	30962	0.92	2.0E-84	BF511576.1	EST_HUMAN	Homo sapiens myelin transcription factor 1-like (MYT1L) mRNA, complete cds
5439	18238	30963	0.92	2.0E-84	BF511576.1	EST_HUMAN	UHH-B14-ec1-e-02-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
6540	18305	32310	0.75	2.0E-84	H63370.1	EST_HUMAN	UHH-B14-ec1-e-02-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
7956	20651		1.35	2.0E-84	AI298674.1	EST_HUMAN	yf56e11.s1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:209324 3'
8284	20978	34118	0.49	2.0E-84	AL163204.2	NT	qm87c09.x1 NCI_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1806728 3'
8284	20978	34119	0.48	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9245	21924	35094	0.81	2.0E-84	AL120280.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
9631	22263	35476	0.61	2.0E-84	H22481.1	EST_HUMAN	AU120280 HEMBB1 Homo sapiens cDNA clone HEMBB1000339 5'
12159	24843	31100	3	2.0E-84	BF448000.1	EST_HUMAN	ym49e11.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:51383 5' similar to SP:APOH_RAT
12159	24843	31101	3	2.0E-84	BF448000.1	EST_HUMAN	P26844 BETA-2-GLYCOPROTEIN 1;
304	13108	25748	1.89	1.0E-84	AF114488.1	NT	nae30a02.x1 Lupskid_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to
536	13319	25953	20.84	1.0E-84	4507952	NT	TR:Q9UGS3 Q8UGS3 DJ756G23.1;
703	13478		1	1.0E-84	11427631	NT	nae30a02.x1 Lupskid_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to
1270	14019	26685	3.17	1.0E-84	AA884379.1	EST_HUMAN	TR:Q9UGS3 Q8UGS3 DJ756G23.1;
2048	14781	27608	1.92	1.0E-84	BE392137.1	EST_HUMAN	Homo sapiens intracrin short isoform (ITSN) mRNA, complete cds
2220	14948	27688	1.13	1.0E-84	11427197	NT	Homo sapiens tyrosine 3-monooxygenase/hypophan 5-monooxygenase activation protein, zeta polypeptide
3733	16486	29123	2.46	1.0E-84	AA720861.1	EST_HUMAN	(YWHAZ) mRNA
4383	17120	29752	5.01	1.0E-84	AJ228041.1	NT	Homo sapiens complement component 5 (C5), mRNA
4651	17385	30017	3.53	1.0E-84	ALD43314.2	EST_HUMAN	arn85b11.s1 Streptococcus schizo brain S11 Homo sapiens cDNA clone IMAGE:1629885 3'
4651	17385	30018	3.53	1.0E-84	ALD43314.2	EST_HUMAN	601308006F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3028257 5'
4855	17120	29752	2.67	1.0E-84	AJ228041.1	NT	Homo sapiens pericentriolar material 1 (PCM1), mRNA
5153	17870	30483	1.15	1.0E-84	7656988	NT	Homo sapiens cDNA clone IMAGE:1239108 3'
5830	18619	31551	0.98	1.0E-84	11434422	NT	nm12606.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:21922; segment 1/3
							Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
							DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
							DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
							Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
							Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
							Homo sapiens speckle-type POZ protein (SPOP), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6097	18875	31844	1.41	1.0E-84	S73482.1	NT	uterine water channel=28 kda erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 nt]
6781	19525	32552	1.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
6781	19525	32553	1.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7007	19699	32753	2.32	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7369	20049	33130	1.26	1.0E-84	8393994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
7501	20137	33228	2.42	1.0E-84	11430846	NT	Homo sapiens NGFI-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
9435	22113		3.05	1.0E-84	5031984	NT	Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15), mRNA
9670	22322	35519	0.53	1.0E-84	AF224511.1	NT	Homo sapiens Ca2+-binding protein CABP3 (CABP3) gene, exon 8 and partial cds
9690	17900	30588	3.05	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13), mRNA
9690	17900	30589	3.05	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13), mRNA
10496	23142	36368	1.08	1.0E-84	11437356	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIA4), mRNA
12046	24566		2.34	1.0E-84	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA
12151	24638	31098	3.2	1.0E-84	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
946	13712		1.06	9.0E-85	AL163209.2	NT	Homo sapiens nuclear protein Skp mRNA, complete cds
1051	13810	26469	2.39	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skp mRNA, complete cds
1051	13810	26470	2.39	9.0E-85	U51432.1	NT	Homo sapiens leupaxin (LDPL), mRNA
1360	14108	26783	0.95	9.0E-85	4758669	NT	Human plasminogen gene, exon 7
1572	14319	27004	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1572	14319	27005	1.23	9.0E-85	M33282.1	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
1670	14415	27108	3.6	9.0E-85	7657020	NT	Homo sapiens chromosome 21 segment HS21C080
4225	16966	29591	0.96	9.0E-85	AL163280.2	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
4824	17565	30177	0.96	9.0E-85	5901979	NT	Homo sapiens chromosome 21 segment HS21C088
4856	17585	30208	1.12	9.0E-85	AL163288.2	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
1114	13871	26530	1.45	7.0E-85	L05094.1	NT	Homo sapiens MSTP030 mRNA, complete cds
11642	24239		4.32	7.0E-85	AF113210.1	NT	Homo sapiens DEAD/4 (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11392	23998	37300	3.35	6.0E-85	11438573	NT	Homo sapiens DEAD/4 (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11392	23998	37301	3.35	6.0E-85	11438573	NT	Homo sapiens DEAD/4 (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11766	24357	37690	1.29	6.0E-85	AA403053.1	EST_HUMAN	z62b01.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726889 5' similar to TR:G1335769 G1335769 GAG-POL POLYPYRROLINE ;
2332	15056	27792	1.49	5.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4398	17136		0.8	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-1a isoform (CACNA11) mRNA, complete cds
5384	18186	30851	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3862402 5'
5384	18186	30852	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3862402 5'
11063	23733	37005	2	5.0E-85	AF224689.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12743	17136		5.28	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-1a isoform (CACNA11) mRNA, complete cds
6056	18336	31797	1.51	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
6056	18336	31798	1.51	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
10472	23118		1.3	4.0E-85	BE079263.1	EST_HUMAN	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA
1276	14026	26694	2.88	3.0E-85	AF096157.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
1773	14515	27215	3.51	3.0E-85	T07495.1	EST_HUMAN	ye53g09.r1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:121504 5'
4280	17019	29646	6.53	3.0E-85	BE267189.1	EST_HUMAN	601189704F2 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3533616 5'
4841	17571	30194	1.45	3.0E-85		NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
4841	17571	30195	1.45	3.0E-85		NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
5316	18120	30777	1.07	3.0E-85	11422024	NT	Homo sapiens leucine rich protein (LPRP), mRNA
5694	18775	31737	0.63	3.0E-85	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
6043	18823	31783	5.71	3.0E-85	7682309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
6043	18823	31784	5.71	3.0E-85	7682309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
6853	19553		7.79	3.0E-85	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7295	19978	33055	0.91	3.0E-85	11416870	NT	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 protein (KIAA0621), mRNA
7771	20487	33591	1.89	3.0E-85	U44953.1	NT	Homo sapiens DENN mRNA, complete cds
8406	21099	34235	0.74	3.0E-85	11525829	NT	Homo sapiens CGI-81 protein (LOC51108), mRNA
8877	21568	34712	3.8	3.0E-85	11430889	NT	Homo sapiens phospholipase C, epsilon (PLCE), mRNA
9206	22085	35257	0.96	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRNPB2), mRNA
9206	22085	35258	0.96	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRNPB2), mRNA
10381	23027	36242	0.66	3.0E-85	AF098842.1	NT	Homo sapiens phospholipid scramblase mRNA, complete cds
10730	23418	36659	1.88	3.0E-85	BE150392.1	EST_HUMAN	RC1-HT0268-031299-012-09 HT0268 Homo sapiens cDNA
11490	24091	37403	2.25	3.0E-85	5031660	NT	Homo sapiens EGF-like repeats and disocidin like domains 3 (EDIL3), mRNA
11824	24408	37742	1.79	3.0E-85	AB029030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
11824	24408	37743	1.79	3.0E-85	AB029030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
12640	24937		1.98	3.0E-85	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA

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1017	13777	26438	2.34	2.0E-85	AF248540.1	NT	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
1363	14130	26803	0.97	2.0E-85	7708205	NT	Homo sapiens CGI-201 protein (LOC51340), mRNA
1368	14146	26824	8.28	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1369	14146	26825	8.28	2.0E-85	5174776	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
2228	14954	27092	1.53	2.0E-85	U10925.1	NT	Human DNA polymerase beta gene, exons 12 and 13
2828	14063		5.28	2.0E-85	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3022	16788	28435	1.18	2.0E-85	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4300	17039	29698	4.51	2.0E-85	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4527	17262	29896	1.22	2.0E-85	4826977	NT	Homo sapiens resilin (RELN) mRNA
4854	17584	30207	0.97	2.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9173	21843	35009	3.18	2.0E-85	A1760820.1	EST_HUMAN	MSR1 repetitive element
9549	22202	35385	1.08	2.0E-85	A1914459.1	EST_HUMAN	wd4d03.x1 Soares_NFL_T_G8C_S1 Homo sapiens cDNA clone IMAGE:2331461 3'
10162	22810	36028	1.32	2.0E-85	A188384.1	EST_HUMAN	wm84d12.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2443807 3'
2285	15010		2.86	1.0E-85	BE794303.1	EST_HUMAN	601591418F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945818 5'
2392	15113	27850	8.42	1.0E-85	BE618302.1	EST_HUMAN	601462817F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3868021 5'
2392	15113	27851	8.42	1.0E-85	BE618392.1	EST_HUMAN	601462817F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3868021 5'
9881	22333	35528	4.38	1.0E-85	BE257817.1	EST_HUMAN	601109738F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350553 5'
10842	23524	36766	2.77	1.0E-85	AA778785.1	EST_HUMAN	Z4503.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10842	23524	36767	2.77	1.0E-85	AA778785.1	EST_HUMAN	Z4503.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10819	23599	36847	1.73	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
10819	23599	36848	1.73	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
10907	23670	36827	1.28	1.0E-85	Y00052.1	NT	Human mRNA for T-cell cyclophilin
11773	24394	37098	2.41	1.0E-85	A1198420.1	EST_HUMAN	q153e07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1860468 3'
12050	24722	31053	4.4	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12296	24722	31053	4.74	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1409	14156		11.19	9.0E-86	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987690 5'
11698	24293	37618	1.57	8.0E-86	4503224	NT	Homo sapiens cytochrome P450, subfamily IIF, polypeptide 1 (CYP2E1) mRNA
918	13683	26345	2.34	7.0E-86	AA890801.1	EST_HUMAN	q88f08.s1 Soares_panethroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403550 3'
918	13683	26346	2.34	7.0E-86	AA890801.1	EST_HUMAN	q88f08.s1 Soares_panethroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403550 3'
6103	18881	31848	1.02	7.0E-86	9868886	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6103	18881	31849	1.02	7.0E-86	9868886	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
8880	17956	30553	6.95	7.0E-86	11421737	NT	Homo sapiens Tax1 (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA
8843	21335	34479	3.08	7.0E-86	L38557.1	NT	Homo sapiens galactose oxidase (GALC) gene, exon 15

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9599	22252		1.39	7.0E-86	6453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9658	22310	35508	2.27	7.0E-86	11526307	NT	Homo sapiens DGeorge syndrome critical region gene 6 (DGCR6), mRNA
10882	23562	38809	1.72	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
10882	23562	38810	1.72	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
1271	14020	28886	2.88	6.0E-86	4505492	NT	Homo sapiens octoglutamate dehydrogenase (liponitride) (OGDH), mRNA
5105	17823	30440	2.64	6.0E-86	Y19139.1	NT	Homo sapiens arthropodase gene, exons 20 and 21
5107	17825	30442	1.07	6.0E-86	6006833	NT	Homo sapiens 24 kDa intrinac membrane protein (PMP24), mRNA
206	13018	25660	4.98	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
5844	18726	31684	12.1	4.0E-86	BE295843.1	EST_HUMAN	601176865F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531953 5'
11205	13018	25660	2.18	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
5509	18307	31208	6.97	3.0E-86	AW340946.1	EST_HUMAN	x22h12.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871719 3'
8160	20854	33985	1.05	3.0E-86	AV722328	EST_HUMAN	AV722328 HTB Homo sapiens cDNA clone HTBBS004 5'
10120	22768	35980	3.37	3.0E-86	BE886479.1	EST_HUMAN	601506966F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
10120	22768	35981	3.37	3.0E-86	BE886479.1	EST_HUMAN	601506966F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
11413	23180	38408	5.14	3.0E-86	AI659240.1	EST_HUMAN	tu18b02.x1 NCL CGAP_P28 Homo sapiens cDNA clone IMAGE:2251371 3'
11708	24303	37628	1.6	3.0E-86	11037056	NT	Homo sapiens myosin X (MYO10), mRNA
260	13068	25706	2.02	2.0E-86	AA306284.1	EST_HUMAN	EST177232 Jurkat T-cells VI Homo sapiens cDNA 5' end
405	13190		2.59	2.0E-86	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1168	13922	26584	3.21	2.0E-86	N58977.1	EST_HUMAN	yz18a08.r1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:283478 5'
1478	14225	26910	1.93	2.0E-86	4768827	NT	Homo sapiens neurodin III (NRXN3), mRNA
1478	14225	26911	1.93	2.0E-86	4768827	NT	Homo sapiens neurodin III (NRXN3), mRNA
2188	14917	27651	5.09	2.0E-86	9635487	NT	Human endogenous retrovirus, complete genome
2266	14962	27732	1.55	2.0E-86	AB033103.1	NT	Homo sapiens mRNA for KIAA1277 protein, partial cds
3410	16168	28817	1.3	2.0E-86	AW966142.1	EST_HUMAN	EST378215 MAGI resequences, MAGI Homo sapiens cDNA
3729	16481	29118	3.54	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta), mRNA, complete cds
3729	16481	29119	3.64	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta), mRNA, complete cds
4019	16765		2.84	2.0E-86	AW515742.1	EST_HUMAN	hd87g08.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2916542 3'
4737	17469	30106	3.26	2.0E-86	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A), mRNA, partial cds
5782	18573	31501	1.52	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5782	18573	31502	1.52	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6974	25088	32476	0.69	2.0E-86	11419429	NT	Homo sapiens similar to eukaryotic pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
7908	20603	33733	0.69	2.0E-86	U84744.1	NT	Human Chediak-Higashi syndrome protein short isoform (LYST), mRNA, complete cds
8414	21107		0.47	2.0E-86	AL169227.2	NT	Homo sapiens chromosome 21 segment HS21C027

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8472	21184	34307	2.31	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8472	21184	34308	2.31	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8801	21483	34640	0.65	2.0E-86	10863876	NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
9218	21897	35067	1.95	2.0E-86	11422084	NT	Homo sapiens chromosome segregation 1 (yeast homolog)-like (CSE1L), mRNA
10345	22892	36210	2.91	2.0E-86	11548848	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10345	22892	36211	2.91	2.0E-86	11548848	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10400	23046	36262	1.15	2.0E-86	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
10820	23503	36742	2.64	2.0E-86	4750051	NT	Homo sapiens ribosomal protein S8 kinase, POKD, polypeptide 5 (RPS8KAE) mRNA
12458	24827	31027	3.07	2.0E-86	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12621	24926		4.26	2.0E-86	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1592	14338	27027	2.28	1.0E-86	4828855	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) (NDUFS1) mRNA
3160	15923	28569	1.5	1.0E-86	54533649	NT	Homo sapiens fibulin 5 (FBLN5) mRNA
3229	15992	28645	2.7	1.0E-86	L20492.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
3280	16051	28689	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3290	16051	28700	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3926	16676	29318	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
3926	16676	29319	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
4233	16974	29569	5.2	1.0E-86	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4578	17313	29941	1.23	1.0E-86	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
5465	18264	31155	2	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
11606	18264	31155	1.37	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5272	18078		1.81	9.0E-87	AI160703.1	EST_HUMAN	SW:K1CJ_MOUSE P02635 KERATIN, TYPE I CYTOSKELETAL 10 ;
7348	20028	33105	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7348	20028	33106	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
467	13252	25863	15.93	8.0E-87	X62245.1	NT	O. cuniculus mRNA for elongation factor 1 alpha
2294	15019	27755	1.79	7.0E-87	BF063211.1	EST_HUMAN	785602.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:3322779 3'
2294	15019	27756	1.78	7.0E-87	BF063211.1	EST_HUMAN	785602.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:3322779 3'
6307	19079	32064	0.57	7.0E-87	AW890336.1	EST_HUMAN	MRO-NT0039-020500-004-rt11 NT0039 Homo sapiens cDNA
8089	20763	33913	3.4	7.0E-87	BF362776.1	EST_HUMAN	IL3-HT0619-060700-198-D10 HT0619 Homo sapiens cDNA
9354	20425	33544	1.15	7.0E-87	BE172681.1	EST_HUMAN	IL5-HT0702-160600-103-406 HT0702 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9971	22619	35822	3.85	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
9971	22619	35823	3.85	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
10366	25129		0.51	7.0E-87	AI081585.1	EST_HUMAN	cc59H01.a1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:1660657 3'
10806	23489	36724	6.65	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 intron A
10806	23489	36725	6.65	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 intron A
3517	16273	26627	0.99	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
5128	17848	30463	0.69	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
6327	19097	32085	2.02	6.0E-87	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
10625	23318		4.13	6.0E-87	11432444	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC63102), mRNA
1135	13891	26551	1.42	5.0E-87	AA382811.1	EST_HUMAN	EST198094 Testis 1 Homo sapiens cDNA 5' end
12297	13891	26551	1.56	5.0E-87	AA382811.1	EST_HUMAN	EST198094 Testis 1 Homo sapiens cDNA 5' end
945	13711	26376	1.51	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1149	13604	26566	13.58	4.0E-87	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
2024	14759	27488	1.53	4.0E-87	AB007925.1	NT	Homo sapiens mRNA for KIAA0456 protein, partial cds
2421	15142	27874	1.03	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51628), mRNA
2421	15142	27875	1.03	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51628), mRNA
3457	16213	28866	1.8	4.0E-87	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
5360	18162	30846	2.77	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLOCATION VARIANT 2)
5654	18736	31605	4.53	4.0E-87	BE247284.1	EST_HUMAN	TCBAP1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4051
7670	20334	33445	0.72	4.0E-87	L48524.1	NT	Homo sapiens tuberin (TSC2) gene, exon 10
11118	23788	37065	3.44	4.0E-87	M80678.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
12396	26268	30721	1.5	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12396	25268	30722	1.5	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12541	24881		2.25	4.0E-87	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA
2779	15484	28223	2.77	2.0E-87	4865420	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA
3784	18516	29154	0.83	2.0E-87	AU116935.1	EST_HUMAN	Homo sapiens HEMBA1 Homo sapiens cDNA clone HEMBA1000307 5'
4857	17586	30209	1.28	2.0E-87	BF376311.1	EST_HUMAN	CMO-TN0038-150900-552-h8 TN0038 Homo sapiens cDNA
4907	17634	30249	1.47	2.0E-87	BE175478.1	EST_HUMAN	RC5-HT0580-200300-031-004 HTD580 Homo sapiens cDNA
5575	18372	31284	10.34	2.0E-87	BE734190.1	EST_HUMAN	601569041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
5575	18372	31285	10.34	2.0E-87	BE734190.1	EST_HUMAN	601569041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
6234	19008		9.81	2.0E-87	BE567193.1	EST_HUMAN	601341383F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3683348 5'

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Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6569	19362	32376	0.69	2.0E-87	N48128.1	EST_HUMAN	yw21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
6683	19600	32838	0.81	2.0E-87	AV654143.1	EST_HUMAN	AV654143 GLC Homo sapiens cDNA clone GLCDSG04 3'
7073	19784	32828	1.58	2.0E-87	BE294432.1	EST_HUMAN	601176032F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531511 5'
7126	19814	32882	0.84	2.0E-87	11433048	NT	Homo sapiens lect domain and RLD 2 (HERC2), mRNA
7353	20034	33112	39.61	2.0E-87	N48128.1	EST_HUMAN	yw21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
7587	20255	33362	35.45	2.0E-87	N48128.1	EST_HUMAN	yw21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243398 5'
8284	20988	34127	17.42	2.0E-87	X52851.1	NT	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
9685	22337		5.72	2.0E-87	BE531136.1	EST_HUMAN	601278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3810539 5'
1159	15521		2.09	1.0E-87	7705683	NT	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA
1411	14158	26840	1.1	1.0E-87	AW381977.1	EST_HUMAN	PM2-CT0265-141098-001-g04 CT0265 Homo sapiens cDNA
1411	14158	26841	1.1	1.0E-87	AW381977.1	EST_HUMAN	PM2-CT0265-141098-001-g04 CT0265 Homo sapiens cDNA
3697	16451	29090	6.23	1.0E-87	Y00052.1	NT	Human mRNA for T-cell cyclophilin
3717	16470	29108	2.43	1.0E-87	4758827	NT	Homo sapiens neuritin III (NRXN3) mRNA
5095	17814	30431	0.69	1.0E-87	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
5149	12933	30432	0.69	1.0E-87	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
6132	18910	31878	1.91	1.0E-87	A1004091.1	EST_HUMAN	af50404.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1620199 3'
6132	18910	31879	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7077	19768	32832	0.62	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7077	19768	32833	0.62	1.0E-87	AF039517.1	NT	Homo sapiens corticotropin-releasing factor type 1 receptor gene, exon 8
7083	19773	32838	1.18	1.0E-87	4506786	NT	Homo sapiens corticotropin-releasing factor type 1 receptor gene, exon 8
7288	19881	33057	1.23	1.0E-87	11431690	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
8015	20710	33840	12.93	1.0E-87	AF214562.1	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
8807	21499	34644	0.97	1.0E-87	AB022918.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8807	21499	34645	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-alyltransferase ST3Gal VI, complete cds
9533	22186	35371	2.85	1.0E-87	BE818183.1	EST_HUMAN	Homo sapiens mRNA for alpha2,3-alyltransferase ST3Gal VI, complete cds
9533	22186	35372	2.85	1.0E-87	BE818183.1	EST_HUMAN	RC8-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
10272	22920	36131	0.67	1.0E-87	M34428.1	EST_HUMAN	RC8-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
10633	23325	36562	1.55	1.0E-87	6729867	NT	Human L-plastin mRNA, 5' end
10921	23601		1.82	1.0E-87	D10083.1	NT	Homo sapiens lect domain and RLD 2 (HERC2), mRNA
10965	23641	36953	1.65	1.0E-87	5031660	NT	Homo sapiens RGH1 gene, retrovirus-like element
10965	23641	36994	1.65	1.0E-87	5031660	NT	Homo sapiens EGF-like repeats and discolidin-like domains 3 (EDIL3), mRNA
12383	25404		3.54	1.0E-87	7657632	NT	Homo sapiens EGF-like repeats and discolidin-like domains 3 (EDIL3), mRNA
12809	25240		3.94	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
							Homo sapiens sulfotransferase-related protein (SULTX3), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1084	13842	26500	10.24	9.0E-88	AF167465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1327	14076	26750	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
1327	14076	26751	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
2115	14846	27575	1.57	9.0E-88	7601701	NT	Homo sapiens DKFZP586P1522 protein (DKFZP586P1522), mRNA
3617	16370	29012	1.35	9.0E-88	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4236	16077	29602	2.73	9.0E-88	X91829.1	NT	H. sapiens ECE-1 gene (exon 9)
4236	16977	29603	2.73	9.0E-88	X91829.1	NT	H. sapiens ECE-1 gene (exon 9)
4943	17670	30279	1.05	9.0E-88	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
8919	21610	34754	3.82	8.0E-88	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1820	14559		1.02	5.0E-88	7661887	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
2645	15355	28100	3.76	5.0E-88	N89399.1	EST_HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
3000	15766	28414	0.9	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
3384	16143		2.28	5.0E-88	AI693217.1	EST_HUMAN	wd68f08.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to contains Alu repetitive element/contains element MER22 MER22 repetitive element;
4687	17421	30056	0.83	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
6672	19589	32625	3.19	5.0E-88	H10932.1	EST_HUMAN	ym06b10.1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:47129 5'
7830	20525	33650	1.8	5.0E-88	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9211	21890	35057	0.45	5.0E-88	BF680206.1	EST_HUMAN	602154668F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295775 5'
1308	14056	26729	1.42	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-F10 TN0028 Homo sapiens cDNA
1308	14056	26730	1.42	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-F10 TN0028 Homo sapiens cDNA
7143	19830	32899	1.43	4.0E-88	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
10827	23509	36749	1.8	4.0E-88	4502694	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
11471	24072	37380	1.89	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
11471	24072	37381	1.89	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
715	13489	26140	1.85	3.0E-88	11545800	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
1805	14545		1.90	3.0E-88	4508020	NT	Homo sapiens zinc finger protein 250 (ZNF250) mRNA
2948	15714	28387	4.11	3.0E-88	N86951.1	EST_HUMAN	zs48f12.x1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:295823 3'
4216	16957	29579	1.24	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4216	16957	29580	1.24	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4444	17180		4.08	3.0E-88	11429300	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
5216	18024	30648	2.85	3.0E-88	11429567	NT	Homo sapiens vesicain-containing protein (VCP), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5498	18296	31194	4.13	3.0E-88	9986888	NT	Homo sapiens polycythemia rubra vera 1; cell surface receptor (PRV1), mRNA
5618	18414	31327	3.56	3.0E-88	11420697	NT	Homo sapiens v-ral simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
6069	18948	31812	0.61	3.0E-88	11417370	NT	Homo sapiens interleukin 13 (IL13), mRNA
6319	25088	32070	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6319	25088	32077	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6965	19447	32465	14.59	3.0E-88	AF279265.1	NT	Homo sapiens putative anion transporter 1 mRNA, complete cds
7440	20117	33208	6.15	3.0E-88	11436400	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
7821	20518	33642	9.68	3.0E-88	11421728	NT	Homo sapiens growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) (GDF5), mRNA
8096	20790	33921	1.35	3.0E-88	AF034374.1	NT	Homo sapiens molybdenum cofactor biosynthesis protein A and molybdenum cofactor biosynthesis protein C mRNA, complete cds
9334	20405	33521	1.99	3.0E-88	11526262	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
9828	22479	35680	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9828	22479	35681	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9857	22507	35705	1.28	3.0E-88	11439095	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
12139	24628		5.97	3.0E-88	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TON2), mRNA
1013	13773	26432	3.32	2.0E-88	7305188	NT	Homo sapiens Caldesin, presenilin-binding protein, EF hand transcription factor (CSEN), mRNA
1620	14367	27056	1.38	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1744	14486	27185	3.13	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3458	16214	28967	1.52	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4391	17128	29780	2.13	2.0E-88	5031898	NT	Homo sapiens dynein, axonemal, light polypeptide 4 (DNAL4), mRNA
5821	18610	31539	5.63	1.0E-88	AW139565.1	EST_HUMAN	U1H-B11-ccc-d-04-0-UI.s1 NCJ CGAP Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
5821	18610	31540	5.63	1.0E-88	AW139565.1	EST_HUMAN	U1H-B11-ccc-d-04-0-UI.s1 NCJ CGAP Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
6548	19313	32317	23.81	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6548	19313	32318	23.81	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
7022	19714	32771	1.4	1.0E-88	A1960034.1	EST_HUMAN	wq70et12.x1 NCJ CGAP_G08 Homo sapiens cDNA clone IMAGE:2476606 3'
7084	19774	32839	4.42	1.0E-88	AA488981.1	EST_HUMAN	es54et11.s1 NCJ CGAP_G08 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP-B0272.2 CE00851;
9141	21872	35037	0.6	1.0E-88	AA190368.1	EST_HUMAN	zp87c02.1 Stratagene Hela cell s3 937216 Homo sapiens cDNA clone IMAGE:827170 5' similar to SW:POL1_HUMAN P10288 RETROVIRUS-RELATED POL POLYPROTEIN ;
9478	22131	35311	2.97	1.0E-88	AL043314.2	EST_HUMAN	DKFZp434N0323.J1 434 (synonym: hlaes3) Homo sapiens cDNA clone DKFZp434N0323 5'
11422	23189	36420	2.99	1.0E-88	AA991479.1	EST_HUMAN	cc691g03.s1 NCJ CGAP_G03 Homo sapiens cDNA clone IMAGE:1612766 3' similar to gb:M18342 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
12356	24760		3	1.0E-88	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2739	15445	28184	1.33	8.0E-89	BE311557.1	EST_HUMAN	601142409F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506186 5'
6833	19495	32519	1.2	8.0E-89	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC83232), mRNA
424	13210	25858	1.72	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
424	13210	25857	1.72	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
4828	17559	30181	2.86	7.0E-89	4557390	NT	Homo sapiens complement component 8, beta polypeptide (C8B), mRNA
4878	17605	30228	3.35	7.0E-89	AL045748.1	EST_HUMAN	DKFZp434E246_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434E246 5'
5345	18148	30827	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete cds
5345	18148	30828	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete cds
6250	19024	31997	0.57	7.0E-89	7549808	NT	Homo sapiens plectin 3 (T isoform) (PLS3), mRNA
6250	19024	31998	0.57	7.0E-89	7549808	NT	Homo sapiens plectin 3 (T isoform) (PLS3), mRNA
7398	20076	33156	2.06	7.0E-89	11420754	NT	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA
7779	20474	33598	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
7779	20474	33599	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
8584	22237	35421	0.6	7.0E-89	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
10429	23075	36286	1.11	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
10429	23075	36297	1.11	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
10445	23091	36320	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
10445	23091	36321	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
11203	23987	37154	1.45	7.0E-89	M59783.1	NT	Human aldose reductase (AR) gene, segment 2
12774	25028		1.7	7.0E-89	U87827.1	NT	Human ascorbate hydratase (ACO2) gene, exon 2
1002	13762	26423	0.73	6.0E-89	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
2210	14938	27676	1.27	6.0E-89	4506124	NT	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4) mRNA
2434	15155	27888	1.06	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
2434	15155	27889	1.06	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
3515	16271	28925	0.88	6.0E-89	7861817	NT	Homo sapiens HSPC159 protein (HSPC159), mRNA
4593	17328	29954	3.02	6.0E-89	AB007868.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
4593	17328	29955	3.02	6.0E-89	AB007868.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
5100	17819	30436	0.81	6.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5100	17819	30437	0.81	6.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5016	17737	30345	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383
5016	17737	30346	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7487	20169	33251	1.95	4.0E-89	BE762749.1	EST_HUMAN	QV3-NT0022-080800-219-g03 NT0022 Homo sapiens cDNA
11088	23758	37034	1.56	4.0E-89	AI798672.1	EST_HUMAN	we01c03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348452 3'
2879	15648	28289	1.51	3.0E-89	AW976181.1	EST_HUMAN	EST388290 MAGE resequences, MAGN Homo sapiens cDNA
7040	19731	32790	1.26	3.0E-89	AI217359.1	EST_HUMAN	qh17b06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844915 3'
10502	23148	36374	0.48	3.0E-89	AB002297.1	NT	Human mRNA for KIAA0289 gene, partial cds
10702	23393	36630	2.34	3.0E-89	N57357.1	EST_HUMAN	yw66e11.r1 Soares_placenta_8to6weeks_2NbfP8to9W Homo sapiens cDNA clone IMAGE:259148 5'
123	13184	25832	0.87	2.0E-89	7706670	NT	similar to SW:P14K_HUMAN P42356 PHOSPHATIDYLINOSITOL 4-KINASE ALPHA;
123	13184	25833	0.87	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
399	13184	25832	1.55	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
399	13184	25833	1.55	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
517	13301	25833	3.17	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2893	16950	28293	1.53	2.0E-89	AI222095.1	EST_HUMAN	ag96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131
3540	16296	28946	1.01	2.0E-89	AA759149.1	EST_HUMAN	GAMMA-GLUTAMYLTRANSEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
3540	16296	28947	1.01	2.0E-89	AA759149.1	EST_HUMAN	sh70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
4125	16967	29494	1.28	2.0E-89	AF089897.1	NT	sh70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
4133	16875	29504	5.16	2.0E-89	X58742.1	NT	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds
4133	16875	29505	5.16	2.0E-89	X58742.1	NT	H. sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4315	17054	29679	0.75	2.0E-89	AL163203.2	NT	H. sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4463	17199	29826	1.1	2.0E-89	AJ007378.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
5259	18065	30896	0.66	2.0E-89	BE541744.1	EST_HUMAN	Homo sapiens GGT gene, exon 5
5393	18193	31418	2.9	2.0E-89	AB007548.1	NT	60106506F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452423 5'
5702	18496	31418	1.61	2.0E-89	U03985.1	NT	Homo sapiens gene for LECT2, complete cds
6116	18894	31861	0.63	2.0E-89	AL163285.2	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
7567	20237	33341	5.33	2.0E-89	U81004.1	NT	Homo sapiens chromosome 21 segment HS21C005
7835	20530	33657	3.07	2.0E-89	1142880.1	NT	Human GT24 (GT24) mRNA, partial cds
8316	21009	34146	1.02	2.0E-89	AJ245503.1	NT	Homo sapiens acute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA
9152	21893	35052	0.6	2.0E-89	AB037754.1	NT	Homo sapiens partial mRNA for PEX5 related protein
9710	22361	35557	0.88	2.0E-89	AF170814.1	NT	Homo sapiens mRNA for KIAA1333 protein, partial cds
9710	22361	35558	0.88	2.0E-89	AF170814.1	NT	Homo sapiens CaBP5 (CABP5) gene, exon 5
9710	22361	35558	0.88	2.0E-89	AF170814.1	NT	Homo sapiens CaBP5 (CABP5) gene, exon 5

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11348	24036	37339	2.83	2.0E-99	11434411	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
11448	23215	36447	2.3	2.0E-89	6729867	NT	Homo sapiens hec domain and RLD 2 (HERC2), mRNA
11562	24161	37472	5.03	2.0E-89	11433673	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
11718	24312	37636	2.11	2.0E-89	U10692.1	NT	Human IMAGE-7 antigen (IMAGE7) pseudogene, complete cds
11570	24169	37483	5.97	1.0E-89	BF196052.1	EST_HUMAN	hr81d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;
11570	24169	37483	5.97	1.0E-89	BF196052.1	EST_HUMAN	hr81d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;
11570	24169	37483	5.97	1.0E-89	BF196052.1	EST_HUMAN	hr81d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;
8126	20820	33856	1.57	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
8126	20820	33857	1.57	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1041	13801	26459	2.23	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1042	13801	26459	2.9	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1307	15665	26731	3.78	8.0E-90	BE670561.1	EST_HUMAN	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
1307	15665	26732	3.78	8.0E-90	BE670561.1	EST_HUMAN	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
8458	21150	34293	0.55	8.0E-90	BE177830.1	EST_HUMAN	RC1-HT0598-120400-022-b08 HT0598 Homo sapiens cDNA
10599	23293	36531	1.52	8.0E-90	A1222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPETIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
10599	23293	36532	1.52	8.0E-90	A1222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPETIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
10963	23639	36989	1.32	8.0E-90	AA705222.1	EST_HUMAN	zj82g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
10963	23639	36990	1.32	8.0E-90	AA705222.1	EST_HUMAN	zj82g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
816	13887		4.12	7.0E-90	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-48, and partial cds, alternatively spliced
8323	21016		2.08	7.0E-90	AA782977.1	EST_HUMAN	af63d08.s1 Soares_testis_NHT Homo sapiens cDNA clone 1375503 3'
8865	21556	34701	1.62	7.0E-90	BE962525.2	EST_HUMAN	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
8865	21556	34702	1.62	7.0E-90	BE962525.2	EST_HUMAN	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
10036	22884	35901	1.9	7.0E-90	H68849.1	EST_HUMAN	yr66e04.s1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11599 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
10036	22884	35902	1.9	7.0E-90	H68849.1	EST_HUMAN	yr66e04.s1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11599 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10352	22898	36216	1.17	7.0E-90	BF526089.1	EST_HUMAN	602071208F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4214257 5'
4201	16942	29568	9.12	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
4201	16942	29569	9.12	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
5894	18679	31825	3.27	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
5894	18679	31826	3.27	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
8226	20919	34056	2.75	6.0E-90	4504794	NT	Homo sapiens insulin 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
8225	20919	34057	2.75	6.0E-90	4504794	NT	Homo sapiens insulin 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
151	12966		19.84	5.0E-90	AB035344.1	NT	Homo sapiens TCE6 gene, exon 1-10b
1170	13924	28598	3.08	5.0E-90	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1813	14553	27287	1.47	5.0E-90	A1222095.1	EST_HUMAN	q98c08.x1 Soares NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element
1813	14553	27288	1.47	5.0E-90	A1222095.1	EST_HUMAN	q98c08.x1 Soares NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element
2560	15274	28011	2.79	5.0E-90	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
4503	17238	29871	2.05	5.0E-90	4506354	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4622	17357	29892	0.98	5.0E-90	AL136549.1	EST_HUMAN	DKFZp762P1616 J1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762P1616 5'
5504	18302	31203	2.94	5.0E-90	Z18411.1	NT	H. sapiens mRNA encoding phospholipase c
5608	18402	31316	1.31	5.0E-90	AB015617.1	NT	Homo sapiens ELKS mRNA, complete cds
5670	18302	31203	2.36	5.0E-90	Z18411.1	NT	H. sapiens mRNA encoding phospholipase c
6031	19393	32407	0.74	5.0E-90	9910395	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
6031	19393	32408	0.74	5.0E-90	9910395	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7114	19802	32898	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	19802	32897	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7463	20136	33228	9.01	5.0E-90	4557258	NT	Homo sapiens adenylate cyclase 9 (ADCY9) mRNA
7790	20485	33609	0.44	5.0E-90	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
8192	20896	34026	5.08	5.0E-90	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
9098	21784	34950	0.58	5.0E-90	4828970	NT	Homo sapiens cadherin 18 (CDH18) mRNA
9579	22232	35416	1.06	5.0E-90	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
10181	22826	36044	0.56	5.0E-90	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10312	22959	36175	0.5	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10312	22959	36176	0.5	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10344	22981	36209	9.16	5.0E-90	11433721	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA
10402	23048	36284	0.54	5.0E-90	7682051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10402	23048	36285	0.54	5.0E-90	7682051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
11731	24324	37648	2.41	5.0E-90	7682047	NT	Homo sapiens KIAA0305 gene product (KIAA0305), mRNA
12591	24948		2.08	5.0E-90	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
12841	24938		4.43	5.0E-90	AI523368.1	EST_HUMAN	er78h05.x1 Barsted aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2128761 3'
295	13101	25742	1.93	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
295	13101	25743	1.93	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
1064	13822	26482	3.28	4.0E-90	4505316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1684	14428	27125	8.09	4.0E-90	X99033.1	NT	H. sapiens gene encoding discoidin receptor tyrosine kinase, exon 16
2992	15758	28405	0.98	4.0E-90	AF007544.1	NT	Homo sapiens prostate-specific membrane antigen (PSM) gene, complete cds
3023	15789	28436	1.07	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3023	15789	28437	1.07	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4608	17343	29975	7.95	4.0E-90	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4743	17475	30109	2.17	4.0E-90	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4768	17500	30123	2.33	4.0E-90	M95967.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 8
7751	20447	33570	1.08	3.0E-90	BF516198.1	EST_HUMAN	UI-H-BW1-amy-b-04-0-U1.s1 NCI CGAP Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
7751	20447	33571	1.08	3.0E-90	BF516198.1	EST_HUMAN	UI-H-BW1-amy-b-04-0-U1.s1 NCI CGAP Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
11630	24227	37551	17.81	3.0E-90	BE563833.1	EST_HUMAN	601335244F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689147 5'
208	13020	25662	4.71	2.0E-90	BE537913.1	EST_HUMAN	601067378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453834 5'
1150	13905	26567	2.67	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1150	13905	26568	2.67	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
3826	16577	29209	1.7	2.0E-90	AI138213.1	EST_HUMAN	qc54c02.x1 Soares placenta 86dweeks_2NblHP8t9W Homo sapiens cDNA clone IMAGE:1713410 3'
4840	17374	30008	1.05	2.0E-90	AB006627.1	NT	similar to SW:OLF3 MOUSE P23275 OLFACTORY RECEPTOR OR3.;
4853	17583	30206	7.31	2.0E-90	5729855	NT	Homo sapiens mRNA for KIAA0289 gene, partial cds
							Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
5695	18489	31410	4.86	2.0E-90	AW672686.1	EST_HUMAN	ba49d05.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2898881 5' similar to TR:O75208 O75208 HYPOTHETICAL 35.5 KD PROTEIN.;
9689	22341	35534	4.78	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
9689	22341	35535	4.78	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
9860	22510	35706	1.37	2.0E-90	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9860	22510	35707	1.37	2.0E-00	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
11447	23214	38446	2.8	2.0E-00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
270	13078	25720	4.55	1.0E-00	4502180	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
365	15516	25805	1.36	1.0E-00	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
366	15516	25805	1.43	1.0E-00	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
679	13454	26098	2.32	1.0E-00	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
679	13454	26099	2.32	1.0E-00	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
713	13487	26137	13.22	1.0E-00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
713	13487	26138	13.22	1.0E-00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1088	13846	26703	2.47	1.0E-00	4507828	NT	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLF7), mRNA
1283	14033	26703	5.56	1.0E-00	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1283	14033	26704	5.56	1.0E-00	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1662	14408	27342	1.23	1.0E-00	BE378884.1	EST_HUMAN	601159563F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511118 5'
1895	14632	27342	3.33	1.0E-00	11420514	NT	Homo sapiens similar to SALL1 (sal (Drosophila)-like (LOC57167), mRNA
2858	15626	28271	6.46	1.0E-00	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (C8ORF2), mRNA
4389	17126	29758	1.29	1.0E-00	AF167340.1	NT	Homo sapiens soluble Interleukin 1 receptor accessory protein (IL1RAP) gene, exon 8, alternative exons 9 and complete cds, alternatively spliced
5589	18385	31295	2.58	1.0E-00	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
5746	18538	31460	0.96	1.0E-00	11428910	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6473	19240	32240	0.57	1.0E-00	11419408	NT	Homo sapiens cytochrome P450, 51 (lanosterol 14-alpha-demethylase) (CYP51), mRNA
6873	19455	32475	0.68	1.0E-00	U91934.1	NT	Human retina-derived POU-domain factor-1 mRNA, complete cds
7204	19899	32965	0.64	1.0E-00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7571	20240	33345	2.77	1.0E-00	11426798	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
8720	21412	34555	3.73	1.0E-00	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
9183	21863	35062	0.96	1.0E-00	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9215	21864	35063	1.53	1.0E-00	11422109	NT	Homo sapiens GGI-15 protein (LOC51006), mRNA
9215	21864	35063	1.53	1.0E-00	11422109	NT	Homo sapiens GGI-15 protein (LOC51006), mRNA
10657	23253	36490	1.5	1.0E-00	R25888.1	EST_HUMAN	yg44d1172 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:35477 5'
10987	23843	36968	1.78	1.0E-00	J04474.1	NT	Human branched chain alpha-keto acid dehydrogenase mRNA, 3' end
12580	24904	31001	1.49	1.0E-00	AB002050.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12680	24904	31002	1.49	1.0E-00	AB002050.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4172	16812	28542	6	8.0E-01	D12234.1	EST_HUMAN	HUM000S381 Liver HepG2 cell line. Homo sapiens cDNA clone s381 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1427	14174	28859	1.08	7.0E-01	AF053768.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
8205	20899	34036	1.8	7.0E-01	11419234	NT	Homo sapiens makorin, ring finger protein, 1 (MKRN1), mRNA
10198	22846	36062	0.68	7.0E-01	AB04151.1	EST_HUMAN	OM-BT043-080290-075 BT043 Homo sapiens cDNA
3467	16223	28877	1.83	5.0E-01	AA702794.1	EST_HUMAN	z89004.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
4480	17215	29840	11.73	5.0E-01	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
4480	17215	29841	11.73	5.0E-01	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
4757	17489	30116	0.97	5.0E-01	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
4757	17489	30117	0.97	5.0E-01	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
6519	19285	32289	1.25	5.0E-01	AB79995.1	EST_HUMAN	eu4909.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518121 3' similar to SW:ASPG_FLAME Q47896 N4-(BETA-N-ACETYL-GLUCOSAMINYL)-L-ASPARAGINASE PRECURSOR ;
8105	20799	33931	1.2	5.0E-01	BF314982.1	EST_HUMAN	801901824F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130633 6'
8658	21350	34495	1.52	5.0E-01	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLC8YF08 3'
8658	21350	34496	1.52	5.0E-01	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLC8YF08 3'
12812	24919		1.74	5.0E-01	AI193598.1	EST_HUMAN	qe70f11.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1744365 3' similar to contains MIR.b2 MIR repetitive element ;
3197	15960	28611	1.89	4.0E-01	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3197	15960	28612	1.69	4.0E-01	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
10848	23530	36775	4.49	4.0E-01	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
12094	24596	31082	1.86	4.0E-01	M77994.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #36205) Homo sapiens cDNA clone HHCMC80 similar to
12094	24596	31127	1.98	4.0E-01	M77994.1	EST_HUMAN	Retrovirus-related gag polyprotein
1613	14380	27049	3.07	3.0E-01	11430193	NT	EST01579 Hippocampus, Striatum (cat. #36205) Homo sapiens cDNA clone HHCMC80 similar to
1613	14380	27050	3.07	3.0E-01	11430193	NT	Retrovirus-related gag polyprotein
3334	16094	28746	1.62	3.0E-01	AL183283.2	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
3455	16211	28863	3.39	3.0E-01	AB033104.1	NT	Homo sapiens chromosome 21 segment HS21C083
3455	16211	28864	3.39	3.0E-01	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3768	16520	29159	1.45	3.0E-01	AF084530.1	NT	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cds
4551	17286	29915	3.79	3.0E-01	M30638.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
5600	18395	31305	1.27	3.0E-01	11434964	NT	Homo sapiens epididymal secretory protein (19.5KD) (HE1), mRNA
6212	18987		2.48	3.0E-01	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6488	19255	32256	5.82	3.0E-01	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA

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6488	19255	32257	5.82	3.0E-01	11497011	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
7338	20208	33306	4.97	3.0E-01	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
7338	20208	33307	4.97	3.0E-01	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
8669	21361	34506	2.58	3.0E-01	D10494.1	NT	Human mRNA for very low density lipoprotein receptor, complete cds
9188	21858	35023	2.83	3.0E-01	AB011166.1	NT	Homo sapiens mRNA for KIAA0684 protein, partial cds
10803	23486	36723	1.41	3.0E-01	AB032179.2	NT	Homo sapiens EHM2 mRNA, complete cds
11160	23827	37105	1.86	3.0E-01	AB028003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
11160	23827	37108	1.86	3.0E-01	AB028003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
12335	24749	31067	2	3.0E-01	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12687	17898	30489	4.35	3.0E-01	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
12687	17898	30490	4.35	3.0E-01	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
47	12876	25501	5.06	1.0E-01	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1223	13973	28645	6.31	1.0E-01	AW449748.1	EST_HUMAN	UI-H-BJ3-aks-4-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
5328	18131	30780	0.97	1.0E-01	11434402	NT	Homo sapiens hypothetical protein PRO1855 (PRO1855), mRNA
6743	19577	32610	2.26	1.0E-01	BF348182.1	EST_HUMAN	602022088F1 NCI_CGAP_Bim87 Homo sapiens cDNA clone IMAGE:4157804 5'
6743	19577	32611	2.26	1.0E-01	BF348182.1	EST_HUMAN	602022088F1 NCI_CGAP_Bim87 Homo sapiens cDNA clone IMAGE:4157804 5'
12245	25340		1.35	1.0E-01	H15212.1	EST_HUMAN	ym30e03.J1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:49587 5'
1219	13970	28639	9.06	9.0E-02	AJ001689.1	NT	Homo sapiens NKGD2 gene, exon 10
1219	13970	28640	9.06	9.0E-02	AJ001689.1	NT	Homo sapiens NKGD2 gene, exon 10
5120	17638	30454	0.9	9.0E-02	AJ001689.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
5376	18178	30887	4.86	9.0E-02	AB020640.1	NT	Human Na ⁺ /K ⁺ ATPase alpha-subunit mRNA, partial cds
5518	18316	31217	2.83	9.0E-02	J03007.1	NT	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA
6362	19132	32127	4.03	9.0E-02	AF310103.1	NT	Homo sapiens NALP1 mRNA, complete cds
7756	20452	33576	7.17	9.0E-02	AJ250588.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
7756	20452	33577	7.17	9.0E-02	AJ250588.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8272	20966	34107	0.92	9.0E-02	AB040845.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8272	20966	34108	0.92	9.0E-02	AB040845.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9174	21844	35010	1.95	9.0E-02	11422088	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
11161	23828		1.95	9.0E-02	7706688	NT	Homo sapiens RNB6 (RNB6), mRNA
91	12917	25554	2.25	8.0E-02	W26367.1	EST_HUMAN	2693 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
279	13096	25728	3.29	8.0E-02	BE386363.1	EST_HUMAN	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614867 5'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5041	17760	30374	0.98	8.0E-92	AW157571.1	EST_HUMAN	eu83108.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
5308	18113	30771	0.85	8.0E-92	AB048820.1	NT	TR:O60302 O60302 KIAA0555 PROTEIN, contains element MER22 repetitive element;
							Homo sapiens mRNA for KIAA1600 protein, partial cds
							Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete
							cds
5411	18210	30918	0.97	8.0E-92	AF264717.1	NT	Homo sapiens MCP-4 gene
6451	19219	32217	1.31	8.0E-92	AJ000979.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds
6466	19223	32222	0.92	8.0E-92	AF179428.1	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
7990	20685		0.55	8.0E-92	11416901	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8324	21017	34152	3.91	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8324	21017	34153	3.91	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8422	21115	34253	0.58	8.0E-92	11426569	NT	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA
8990	21651	34801	2.82	8.0E-92	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
9925	22573	35771	1.18	8.0E-92	Y13829.1	NT	Homo sapiens mRNA for MBNL protein
10707	23397	36638	3.2	8.0E-92	AF074393.1	NT	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
11333	24024	37329	1.91	8.0E-92	4503340	NT	Homo sapiens dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST)
23	12851	25466	1.62	7.0E-92	AB031007.1	NT	mRNA
64	12892	25525	1.01	7.0E-92	M60876.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
230	15538	25680	0.87	7.0E-92	AB018301.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
230	15538	25681	0.87	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
577	13357		1.34	7.0E-92	AF007822.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
1257	14006	26875	1.99	7.0E-92	4502384	NT	Homo sapiens cytoplasmic Sepsinase truncated isoform mRNA, complete cds
2184	14913	27645	2.27	7.0E-92	5031570	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2184	14913	27646	2.27	7.0E-92	5031570	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2568	15282	28020	1.46	7.0E-92	AF167706.1	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2728	15435	28171	2.2	7.0E-92	6005738	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2757	15462	28205	1.23	7.0E-92	AB031007.1	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
3340	17877	28750	1.06	7.0E-92	4507500	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
3340	17877	28751	1.06	7.0E-92	4507500	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
							Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
							Homo sapiens NRAS-related gene (D1S155E), mRNA
							Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
							Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
							Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
							N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2890
4547	17282	28912	2.99	7.0E-92	S71824.1	NT	nt]
4547	17282	28913	2.89	7.0E-92	S71824.1	NT	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2890

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4944	17671	30280	0.98	7.0E-02	AL183281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5180	17989	30504	6.05	7.0E-02	AA446206.1	EST_HUMAN	z968d12.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781175 5'
1582	14328		1.29	5.0E-02	BE390882.1	EST_HUMAN	601263012F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605018 5'
2768	15473	28215	1.0	3.0E-02	BE009714.1	EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3602839 5'
5786	18577	31506	2.6	3.0E-02	AA378336.1	EST_HUMAN	EST91020 Synovial sarcoma Homo sapiens cDNA 5' end similar to similar to ribosomal protein S13
10664	23355	36594	2.72	3.0E-02	X15804.1	NT	Human mRNA for alpha-actinin
10664	23355	36595	2.72	3.0E-02	X15804.1	NT	Human mRNA for alpha-actinin
24	12852	25467	1.66	2.0E-02	4501898	NT	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA
174	12886	25625	3.57	2.0E-02	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (Dj462023.2), mRNA
174	12886	25626	3.57	2.0E-02	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (Dj462023.2), mRNA
732	13508	28162	1.33	2.0E-02	BE299190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
732	13508	28163	1.33	2.0E-02	BE299190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1709	14452		2.22	2.0E-02	S78653.1	NT	migraines-related [human, Genomic, 2416 nt]
1928	14685	27378	2.36	2.0E-02	AB181119.1	EST_HUMAN	wk27d07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
1928	14685	27378	2.36	2.0E-02	AB181119.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
2041	14775	27504	5.58	2.0E-02	4506860	NT	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
2804	16374	28113	19.2	2.0E-02	6912457	NT	Homo sapiens syndecan 4 (amphiglycan, nudocan) (SDC4) mRNA
3600	16353	28992	2.61	2.0E-02	AF231919.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
3600	16353	28993	2.61	2.0E-02	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3674	16427	29068	5.57	2.0E-02	5803180	NT	Homo sapiens chromosome 21 unknown mRNA
4256	16907	29626	1.23	2.0E-02	M10976.1	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA
4636	17684		2.51	2.0E-02	AL040437.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
5673	18468	31363	0.64	2.0E-02	AF016535.1	NT	DKFZp434C0414.1_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434C0414 5'
6209	18984		0.6	2.0E-02	4504756	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6517	19282	32285	3.03	2.0E-02	AB028991.1	NT	Homo sapiens integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL), mRNA
7364	20045		0.61	2.0E-02	U67780.1	NT	Homo sapiens mRNA for KIAA1068 protein, partial cds
7387	20045		0.78	2.0E-02	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
8754	21446	34594	1.69	2.0E-02	AW340174.1	EST_HUMAN	Human NPY Y1-like receptor pseudogene mRNA, complete cds
10669	23350	36587	4.83	2.0E-02	11434600	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
							hcd0202.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:Q0271
							O02711 PRO-POL-DUTPASE POLYPROTEIN ;
							Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10930	23610	36859	1.48	2.0E-92	11434759	NT	Homo sapiens zinc finger protein 198 (ZNF198), mRNA
10978	23653	36906	2.54	2.0E-92	5803103	NT	Homo sapiens male-specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA
12439	24809	31046	2.69	2.0E-92	AB028016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12697	15374	28113	2.51	2.0E-92	6012457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1842	14580	27294	1.13	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Soares placenta Nb2HIF Homo sapiens cDNA clone IMAGE:145574 5'
1842	14580	27295	1.13	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Soares placenta Nb2HIF Homo sapiens cDNA clone IMAGE:145574 5'
2068	14798	27525	8.83	1.0E-92	4508068	NT	Homo sapiens ribosomal protein, large, P1 (RPLP1) mRNA
8145	20839	33971	1.29	1.0E-92	BE439625.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
9062	21751	34910	3.82	1.0E-92	A1880356.1	EST_HUMAN	Q18825 PROTEIN-TYROSINE PHOSPHATASE D1; contains Alu repetitive element; contains element MER17 repetitive element;
9062	21751	34911	3.82	1.0E-92	A1880356.1	EST_HUMAN	Q18825 PROTEIN-TYROSINE PHOSPHATASE D1; contains Alu repetitive element; contains element MER17 repetitive element;
2023	14768	27487	3	9.0E-93	AU121681.1	EST_HUMAN	AU121681 MAMMA1 Homo sapiens cDNA clone MAMMA1000738 5'
2035	14770		5.48	9.0E-93	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' and similar to ribosomal protein L28
2653	15363		1.45	9.0E-93	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3602	16355	28995	1.11	9.0E-93	BE388571.1	EST_HUMAN	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832 5'
11645	24242		9.71	9.0E-93	11418528	NT	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
6351	19121	32112	0.58	8.0E-93	AW014042.1	EST_HUMAN	UI-H-B10-eah-h-06-Q-U1.s1 NCJ CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6351	19121	32113	0.58	8.0E-93	AW014042.1	EST_HUMAN	UI-H-B10-eah-h-06-Q-U1.s1 NCJ CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6496	19262	32263	2.51	8.0E-93	BF036364.1	EST_HUMAN	601460521F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3863908 5'
239	13048	25687	9.92	7.0E-93	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3073	15839	28482	0.94	6.0E-93	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
6581	19344	32358	1.02	6.0E-93	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
6817	19478	32501	1.12	6.0E-93	AF085771.1	NT	Homo sapiens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds
1359	14107	26782	3.51	5.0E-93	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
1398	14133	26807	7.28	5.0E-93	A1674184.1	EST_HUMAN	wc09c08.x1 NCJ CGAP_P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1398	14133	26808	7.28	5.0E-93	A1674184.1	EST_HUMAN	wc09c08.x1 NCJ CGAP_P128 Homo sapiens cDNA clone IMAGE:2314670 3'
3227	15990	28643	2.98	5.0E-93	X04201.1	NT	Human skeletal muscle 1.3 kb mRNA for tropomyosin
5710	18503	31425	1.01	5.0E-93	M22878.1	NT	Human somatic cytochrome c (HC1) processed pseudogene, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6018	18759		1.02	5.0E-03	AF045555.1	NT	Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
7614	20280	33388	3.6	5.0E-03	AF067136.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
8503	21195	34338	1	5.0E-03	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8503	21185	34339	1	5.0E-03	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
9623	22176	35380	2.16	5.0E-03	AF274963.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9707	22358	35554	1.25	5.0E-03	5032158	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
9970	22618	35821	1.9	5.0E-03	AF069313.2	NT	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds
10727	23415	36658	2.25	5.0E-03	11438598	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12343	25052	30859	2.15	5.0E-03	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
12805	25052	30859	1.44	5.0E-03	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
86	12912		8.52	4.0E-03	AA459833.1	EST_HUMAN	z50c09.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:795888 3' similar to SW:CLPA_RAT
432	13218	25883	1.39	4.0E-03	4557879	NT	P37387 CALPONIN, ACIDIC ISOFORM:
432	13218	25884	1.39	4.0E-03	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
755	13527	26186	1.67	4.0E-03	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
755	13527	26187	1.67	4.0E-03	7657454	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
1160	13914	26577	1.53	4.0E-03	7657454	NT	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
1870	14708	27424	4.3	4.0E-03	8023658	NT	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA
2241	14969	27707	0.98	4.0E-03	AF047677.1	NT	Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in intron 5
2397	15118	27855	1.65	4.0E-03	AF157478.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
3553	16308	28658	0.73	4.0E-03	AL183301.2	NT	Homo sapiens chromosome 21 segment HS21C101
4026	16771	29403	1.67	4.0E-03	7705396	NT	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA
				4.0E-03	4504654	NT	Homo sapiens interleukin 18 receptor 1 (IL18R1) mRNA
5557	18354	31264	4.9	4.0E-03	T48894.1	EST_HUMAN	y694c12.r1 Stratagene liver (8837224) Homo sapiens cDNA clone IMAGE:78838 5' similar to similar to SP-A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN
11078	23748	37023	6.17	4.0E-03	AV682051.1	EST_HUMAN	AV682051 GKC Homo sapiens cDNA clone GKCDRF07 5'
3643	16398	29035	7.35	3.0E-03	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332038 5'
3643	16398	29036	7.35	3.0E-03	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332038 5'
4210	16951		1.31	3.0E-03	AF225886.1	NT	Homo sapiens tensin mRNA, complete cds
5697	18491	31412	0.79	3.0E-03	AI553853.1	EST_HUMAN	tr28g03.x1 NCJ CGAP Bm25 Homo sapiens cDNA clone IMAGE:2169076 3'
5697	18491	31413	0.79	3.0E-03	AI553853.1	EST_HUMAN	tr28g03.x1 NCJ CGAP Bm25 Homo sapiens cDNA clone IMAGE:2169076 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6468	19235	32236	1.21	3.0E-03	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast homolog)-like 2 (GCN5L2), mRNA
10703	23394	36631	4.27	3.0E-03	A1824829.1	EST_HUMAN	wb02a05.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2304489 3'
185	12908	25637	7.51	2.0E-03	AB016810.1	NT	Chlorococcus aethiops mRNA for ribosomal protein S4X, complete cds
185	12908	25638	7.51	2.0E-03	AB015910.1	NT	Chlorococcus aethiops mRNA for ribosomal protein S4X, complete cds
315	13119	25758	9.36	2.0E-03	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
316	13119	25758	9.48	2.0E-03	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1810	14357	27046	1.33	2.0E-03	AF225898.1	NT	Homo sapiens tensin mRNA, complete cds
2126	14857	27587	1.33	2.0E-03	U40763.1	NT	Human CLK-associated RS cyclophilin CARS-Cyp mRNA, complete cds
2490	15207	27949	1.66	2.0E-03	BE262982.1	EST_HUMAN	60117686F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3358220 5'
5332	18135	30794	5.42	2.0E-03	AW864385.1	EST_HUMAN	EST378458 MAGE resequences, MAGE-H Homo sapiens cDNA
5342	18145	30824	0.66	2.0E-03	4758153	NT	Homo sapiens deafness, autosomal dominant 5 (DFNA5), mRNA
5456	18254		1.04	2.0E-03	BF351459.1	EST_HUMAN	QV3-HT0513-290300-128-H04 HT0513 Homo sapiens cDNA
5550	18347	31256	1.13	2.0E-03	11430039	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
5565	18362	31270	0.65	2.0E-03	U74313.1	EST_HUMAN	HSU74313 Human chromosome 14 Homo sapiens cDNA clone 1-86
6594	19347		1.1	2.0E-03	AW502002.1	EST_HUMAN	U1-HF-BNO-aks-g-09-0-U1.1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3078328 5'
11014	23686	36946	1.27	2.0E-03	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
11014	23686	36947	1.27	2.0E-03	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
12233	24686		2.64	2.0E-03	AA126735.1	EST_HUMAN	z129c10.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503346 3'
12314	24736		2.17	2.0E-03	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
12571	24899		10.79	2.0E-03	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862086 5'
101	12927	25594	2.29	1.0E-03	AF238997.1	NT	Homo sapiens CTR1 pseudogene
101	12927	25595	2.29	1.0E-03	AF238997.1	NT	Homo sapiens CTR1 pseudogene
505	13289	25923	4.25	1.0E-03	7857016	NT	Homo sapiens hypothetical protein (D.J328E19.C1.1), mRNA
588	13388	25994	4.57	1.0E-03	A148755.1	EST_HUMAN	cy84b08.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:1672503 3' similar to TR:Q62384 Q62384 ZINC FINGER PROTEIN ;
852	13622	26292	8.91	1.0E-03	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1144	13699	26560	2.9	1.0E-03	4503872	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD67, mRNA
1215	13965	26632	7.65	1.0E-03	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1215	13965	26633	7.65	1.0E-03	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1322	14071	26744	1.5	1.0E-03	AB046783.1	NT	Homo sapiens mRNA for KIAA1563 protein, partial cds
1324	14073	26748	0.99	1.0E-03	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
2337	15061	27798	1.33	1.0E-03	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2466	15184	27924	1.7	1.0E-93	AF055066.1	NT	Homo sapiens MHC class 1 region
2511	15228		0.96	1.0E-93	AL137200.1	NT	Novel human gene mapping to chromosome 1
2825	14022	26689	1.47	1.0E-93	BE297369.1	EST_HUMAN	601177686F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2825	14022	26690	1.47	1.0E-93	BE297369.1	EST_HUMAN	601177686F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2834	15700	28349	7.48	1.0E-93	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
3210	15973		1.27	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
4395	17132	29763	2.8	1.0E-93	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5479	18278	31173	2.38	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5479	18278	31174	2.38	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5078	18472	31389	0.96	1.0E-93	AF227138.1	NT	Homo sapiens candidate taste receptor T2R14 gene, complete cds
5825	18614	31548	10.32	1.0E-93	4557792	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) mRNA
6104	18882	31850	1.4	1.0E-93	7062241	NT	Homo sapiens KIAA0872 gene product (KIAA0872), mRNA
6894	19611	32650	2.01	1.0E-93	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7150	19637	32807	3.49	1.0E-93	D42072.1	NT	Human mRNA for NF1 N-isoform-exon11, complete cds
8158	20862	33984	2.54	1.0E-93	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
8441	21133	34269	1.2	1.0E-93	Y10183.1	NT	H. sapiens mRNA for MEMD protein
8547	21239	34382	1.38	1.0E-93	AF182032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds
9352	20423	33542	1.79	1.0E-93	AB040918.1	NT	Homo sapiens mRNA for KIAA1495 protein, partial cds
9356	20427	33546	1.26	1.0E-93	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9488	22141	35319	8.29	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9488	22141	35320	8.29	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9625	22278	35467	0.79	1.0E-93	AL040801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10045	22693	35910	0.62	1.0E-93	11433646	NT	Homo sapiens ryanodine receptor 3 (RYR3), mRNA
12487	24846		1.84	1.0E-93	AJ230125.1	NT	Homo sapiens GGT1 gene, exon 1
12586	24896		2.64	1.0E-93	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12739	25391		1.49	1.0E-93	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
10492	23138		1.03	8.0E-94	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3944	16694	29333	1.63	6.0E-94	AF142482.1	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
5283	18088	30747	4.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5283	18088	30748	4.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5957	18739	31698	4.22	5.0E-94	AA722434.1	EST_HUMAN	zgb7g06.s1 Soares_fetal_heart_Nb-H19W Homo sapiens cDNA clone IMAGE:409594 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6910	19848	32693	1.29	5.0E-04	AJ015800.1	EST_HUMAN	cl83405.s1 Soares total fetus Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:1623369 3'
8537	21229	34371	1.11	5.0E-04	BF529115.1	EST_HUMAN	602042163F1 NCJ_CGAP_Bim67 Homo sapiens cDNA clone IMAGE:4180023 5'
12209	25394	30619	9.99	5.0E-04	T89398.1	EST_HUMAN	yc88b04.s1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:116239 3'
12758	26017		1.5	5.0E-04	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
12761	25021		1.88	5.0E-04	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
1834	14573		2.64	4.0E-04	LO5094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2662	16372	28111	0.92	4.0E-04	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3661	18414	29053	1.38	4.0E-04	AW197851.1	EST_HUMAN	xn80f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
3661	18414	29054	1.38	4.0E-04	AW197851.1	EST_HUMAN	xn89f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
4669	17403	30038	2.87	4.0E-04	A1591312.1	EST_HUMAN	tw11f10.x1 NCJ_CGAP_Bim62 Homo sapiens cDNA clone IMAGE:2259403 3' similar to TR:Q15265 Q15265 PROTEIN TYROSINE PHOSPHATASE ;
6376	19145	32143	1.82	4.0E-04	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6376	19145	32144	1.82	4.0E-04	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6812	19473		1.18	4.0E-04	L27386.1	NT	Homo sapiens huntingtin (HD) gene, exon 37
11431	23198	36429	1.5	4.0E-04	11545792	NT	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA
597	13375	26005	1.44	3.0E-04	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
704	13479	26127	0.88	3.0E-04	4502508	NT	Homo sapiens complement component 5 (C5) mRNA
1733	14475	27173	1.19	3.0E-04	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1733	14475	27174	1.19	3.0E-04	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1785	14507	27208	2.61	3.0E-04	4557558	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2073	14805	27534	1.27	3.0E-04	11427779	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
2073	14805	27535	1.27	3.0E-04	11427779	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
4166	18906	29634	0.83	3.0E-04	AA464805.1	EST_HUMAN	zw63g08.l1 Soares total fetus Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:774782 5'
5595	18390	31301	3.41	3.0E-04	11496268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6059	18839	31800	1.33	3.0E-04	AB011536.1	NT	Homo sapiens mRNA for MEGF2, partial cds
6360	19130	32125	4	3.0E-04	11528228	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
7696	20359	33473	1.7	3.0E-04	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
8088	20792	33923	1.18	3.0E-04	AF152309.1	NT	Homo sapiens protocadherin alpha 13 (PODH-alpha13) mRNA, complete cds
8488	21178	34322	4.35	3.0E-04	AB014579.1	NT	Homo sapiens mRNA for KIAA0679 protein, partial cds
9492	22145	35328	5.23	3.0E-04	AF087942.1	NT	Homo sapiens glycogenin-1L mRNA, complete cds
11043	23713	36983	3.26	3.0E-04	4757621	NT	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
11679	24274	37596	1.94	3.0E-04	U26711.1	NT	Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9653	22305	35501	0.7	2.0E-04	A1910393.1	EST_HUMAN	w130h1.1x1 NCL_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
9653	22305	35502	0.7	2.0E-04	A1910393.1	EST_HUMAN	w130h1.1x1 NCL_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
144	12959	25601	1.94	1.0E-04	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3086	15851	28492	2.07	1.0E-04	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
3086	15851	28493	2.07	1.0E-04	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
4382	17065	25694	1.7	1.0E-04	9506892	NT	Homo sapiens hypothetical protein (FLJ20746), mRNA
5026	18763	31727	0.64	1.0E-04	AE000286.1	NT	Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome
6173	18950	31922	0.73	1.0E-04	AL040518.1	EST_HUMAN	DKFZp434G0314.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G0314 5'
6182	18959	31933	0.72	1.0E-04	H08270.1	EST_HUMAN	y87R02.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:45053 5'
6426	19194	32190	0.58	1.0E-04	AV725992.1	EST_HUMAN	AV725992 HTO Homo sapiens cDNA clone HTC8EF05 5'
8012	20707	33836	0.63	1.0E-04	AL103204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8012	20707	33837	0.63	1.0E-04	AL103204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9155	21898	35054	2.76	1.0E-04	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
9887	22339	35533	2.04	1.0E-04	BE780478.1	EST_HUMAN	601468748F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3872088 5'
11000	23673	36629	3.08	1.0E-04	U65590.1	NT	Homo sapiens IL-1 receptor antagonist IL-1Ra (IL-1RN) gene, alternatively spliced forms, complete cds ap22a02.x1 Schiller oligodendrogloma Homo sapiens cDNA clone IMAGE:1956122 3' similar to TR:Q62845
11288	23949	37245	2.82	1.0E-04	A1272244.1	EST_HUMAN	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR. ;
11754	24345	37675	1.72	1.0E-04	11418871	NT	Homo sapiens KIAA0164 gene product (KIAA0164), mRNA
12330	12959	25601	1.45	1.0E-04	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
12608	12859	25601	1.51	1.0E-04	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
1459	14206	26892	1.93	9.0E-05	AF027302.1	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3163	15916	28561	1.45	9.0E-05	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
3153	15916	28562	1.45	9.0E-05	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5320	18123	30781	1.33	9.0E-05	X82569.1	NT	M.musculus glyt1 gene (exons 1c and 2)
5320	18123	30782	1.33	9.0E-05	X82569.1	NT	M.musculus glyt1 gene (exons 1c and 2)
8150	20844	33974	1.77	9.0E-05	AF274753.1	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
4499	17235	29866	3.18	8.0E-05	A1700698.1	EST_HUMAN	we09e04.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
4499	17235	29867	3.18	8.0E-05	A1700698.1	EST_HUMAN	TUBULIN ALPHA-1 CHAIN (HUMAN);
6949	19549	32579	0.76	8.0E-05	11419376	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
7141	19828	32897	1.76	8.0E-05	11428529	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
7141	19828	32898	1.76	8.0E-05	11428529	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
7141	19828	32898	1.76	8.0E-05	11428529	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8097	20791	33922	1.97	8.0E-05	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
8265	22019	35187	2	8.0E-05	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
8265	22019	35188	2	8.0E-05	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9748	22399	35604	3.1	8.0E-05	5174844	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9779	22430		2.94	8.0E-05	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
10135	22783	35994	0.8	8.0E-05	8845523	NT	Homo sapiens early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA
10813	23307	36546	1.3	8.0E-05	AF112152.1	NT	Homo sapiens developmental arteries and neural crest EGF-like protein mRNA, complete cds
11468	24089	37377	1.88	8.0E-05	10864024	NT	Homo sapiens HGF-binding transcription factor Zangfai (ZF), mRNA
12535	24879		12.4	8.0E-05	AA629058.1	EST_HUMAN	z184801.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:744849 3' similar to contains L1, L1 L1 repetitive element;
269	13077	26718	32.81	7.0E-05	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
289	13077	26719	32.81	7.0E-05	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4333	17072	29701	5.18	7.0E-05	M95708.1	NT	Homo sapiens Ly-6-like protein (CD59) mRNA, complete cds
4380	17117		1.3	7.0E-05	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9117	21805	34971	1.31	4.0E-05	BE439625.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
5356	18159	30842	1.58	3.0E-05	BF528041.1	EST_HUMAN	602071146F1 NCL_CGAP_Brr64 Homo sapiens cDNA clone IMAGE:4214147 5'
5588	26071	31294	0.83	3.0E-05	4603364	NT	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7268	19952	33027	1.51	3.0E-05	AW698121.1	EST_HUMAN	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7268	19952	33028	1.51	3.0E-05	AW698121.1	EST_HUMAN	EST370191 IMAGE resequences, IMAGE Homo sapiens cDNA
8278	20972	34113	0.55	3.0E-05	AW157233.1	EST_HUMAN	EST370191 IMAGE resequences, IMAGE Homo sapiens cDNA
8278	20972	34114	0.55	3.0E-05	AW157233.1	EST_HUMAN	au63b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783789 3' similar to TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1];
9255	21934	35107	1.89	3.0E-05	7662289	NT	au63b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783789 3' similar to TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1];
9255	21934	35108	1.89	3.0E-05	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9847	22290	35495	0.73	3.0E-05	BF213448.1	EST_HUMAN	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10792	23475	36716	1.49	3.0E-05	R83190.1	EST_HUMAN	601845212F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070451 6'
1639	14385	27072	2.31	2.0E-05	7662027	NT	yp87g11.11 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:194468 5'
1639	14385	27073	2.31	2.0E-05	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1934	14669	27384	2.51	2.0E-05	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3), mRNA
1937	14672	27388	1.92	2.0E-05	BE393873.1	EST_HUMAN	601312161F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658862 5'
2426	15147	27880	2.22	2.0E-05	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2426	15147	27881	2.22	2.0E-05	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2468	15186	27925	3.28	2.0E-05	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2517	15233	27973	1.85	2.0E-05	4758423	NT	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA
3155	15918	28564	1.98	2.0E-05	AF015452.1	NT	Homo sapiens Usurpin-gamma mRNA, complete cds
3552	16307	28956	3.07	2.0E-05	7705600	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3552	16307	28957	3.07	2.0E-05	7705600	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3605	16358	28996	1.29	2.0E-05	AB037807.1	NT	Homo sapiens mRNA for KIAA1386 protein, partial cds
3732	16485	29122	0.88	2.0E-05	AI290264.1	EST_HUMAN	qm01c02.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1880548 3' similar to WP:T23G7.4
4328	17067	29695	1.32	2.0E-05	7957185	NT	CE03705;
4978	17701	30308	2.72	2.0E-05	7681979	NT	Homo sapiens hypothetical protein (HIS322B1A), mRNA
5392	18192	30884	4.21	2.0E-05	7705764	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5392	18192	30885	4.21	2.0E-05	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5611	18407	31319	1.27	2.0E-05	11225608	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5611	18407	31320	1.27	2.0E-05	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5651	18446	31360	0.7	2.0E-05	11525883	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
6051	18831	31794	5.04	2.0E-06	M59724.1	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
6358	19128	32122	1.16	2.0E-05	11427182	NT	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7
6358	19128	32123	1.16	2.0E-05	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6476	19243	32243	2.45	2.0E-05	AF257737.1	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6666	19583	32617	1.82	2.0E-05	11435773	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
9041	21731	34888	1.08	2.0E-05	11421795	NT	Homo sapiens huntingtin (-huntington disease) (HD), mRNA
10280	22928	36142	0.84	2.0E-06	11434330	NT	Homo sapiens ribophorin II (RPN2), mRNA
10624	23317	36557	2.46	2.0E-05	4757853	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11700	24295	37620	3.02	2.0E-05	7662289	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRIa) mRNA
11700	24295	37621	3.02	2.0E-05	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12289	24724	31065	2.3	2.0E-05	AF240786.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12698	24980	30994	4.66	2.0E-05	11418164	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
5527	18325	31226	8.41	1.0E-05	AA284651.1	EST_HUMAN	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
5527	18325	31227	8.41	1.0E-05	AA284651.1	EST_HUMAN	z23h04.1 Soares overy tumor NBHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to
							TR:G1067084 G1067084 F55H2.6 ;
							z23h04.1 Soares overy tumor NBHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to
							TR:G1067084 G1067084 F55H2.6 ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7414	20091	33175	4.3	1.0E-06	BF370000.1	EST_HUMAN	RC8-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
7414	20091	33176	4.3	1.0E-06	BF370000.1	EST_HUMAN	RC8-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
8094	20788	33920	1.49	9.0E-06	BE897259.1	EST_HUMAN	601437232F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922423 5'
5424	18223		2.77	8.0E-06	AW836047.1	EST_HUMAN	PM0L10019-090300-002-009 L10019 Homo sapiens cDNA
3889	16639	29278	0.74	7.0E-06	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
3476	16232	28886	20.13	6.0E-06	M28873.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3' end
5552	18349	31258	0.74	6.0E-06	11422842	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
11534	24134	37439	3.36	6.0E-06	7862289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11534	24134	37440	3.36	6.0E-06	7862289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11584	24183	37498	2.05	6.0E-06	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11769	24360	37692	1.83	6.0E-06	7862289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11769	24360	37693	1.83	6.0E-06	7862289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
312	13116	25754	2.74	5.0E-06	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
822	13592	26280	4.08	5.0E-06	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
822	13592	26281	4.08	5.0E-06	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
2624	15336		1.43	5.0E-06	11416787	NT	Homo sapiens phosphodiesterase 8A, cGMP-specific, rod, alpha (PDE8A), mRNA
4846	17576		1.39	5.0E-06	X60812.1	NT	H. sapiens DNA for monomine oxidase type A (7) (partial)
6553	19318	32324	1.15	5.0E-06	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6684	19601	32639	5.18	5.0E-06	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6684	19601	32640	5.18	5.0E-06	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6923	19639	32706	0.71	5.0E-06	AB023177.1	NT	Homo sapiens mRNA for KIAA0900 protein, partial cds
7415	20092	33177	1.98	5.0E-06	AB023177.1	NT	Homo sapiens mRNA for 14-3-3gamma, complete cds
8005	20700	33828	1.35	5.0E-06	AB024334.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
8005	20700	33829	1.35	5.0E-06	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
11793	24383	37716	1.4	5.0E-06	M68347.1	NT	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA
4188	16908		12.32	3.0E-06	H89656.1	EST_HUMAN	yr67ht12.1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:212327 5'
406	13191		4.24	2.0E-06	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanome-associated) (CSPG4), mRNA
730	13504	26159	0.91	2.0E-06	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
4708	17440	30072	1.89	2.0E-06	BE148074.1	EST_HUMAN	RC3-HT0230-040500-110-g02 HT0230 Homo sapiens cDNA
7361	20042	33120	0.62	2.0E-06	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
7361	20042	33121	0.62	2.0E-06	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
8879	21570		5.03	2.0E-06	AV689481.1	EST_HUMAN	AV689481 GK Homo sapiens cDNA clone GKCFMD07 5'
12009	24543		2.81	2.0E-06	AW249440.1	EST_HUMAN	2819351.5prtm NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
608	13386	26016	2.6	1.0E-06	4826883	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
608	13386	26017	2.6	1.0E-06	4826883	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
656	13433	26074	3.38	1.0E-06	Y18800.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1774	14516	27216	2.58	1.0E-06	AW955054.1	EST_HUMAN	EST367124 MAGE resequences, MAGC Homo sapiens cDNA
1774	14516	27217	2.56	1.0E-06	AW955054.1	EST_HUMAN	EST367124 MAGE resequences, MAGC Homo sapiens cDNA
2282	15327	27729	1.06	1.0E-06	U51472.2	NT	Felis catus superfast myosin heavy chain (sMyHC) mRNA, complete cds
6869	17946	30541	1.3	1.0E-06	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6949	19431	32447	0.67	1.0E-06	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8111	20805	33638	1.24	1.0E-06	7661803	NT	Homo sapiens HSPG144 protein (HSPG144), mRNA
8111	20805	33639	1.24	1.0E-06	7661803	NT	Homo sapiens HSPG144 protein (HSPG144), mRNA
8616	21308	34450	20.66	1.0E-06	11419429	NT	Homo sapiens similar to ecdonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83214), mRNA
8749	21441	34588	2.09	1.0E-06	AF274883.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10059	22707	35924	1.24	1.0E-06	AB033115.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
10059	22707	35925	1.24	1.0E-06	AB033115.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
11999	13386	26016	1.97	1.0E-06	4826883	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
11999	13386	26017	1.97	1.0E-06	4826883	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
7457	20131		2.6	6.0E-07	BE141849.1	EST_HUMAN	IL5-HT0117-011089-004-D07 HT0117 Homo sapiens cDNA
8832	21524	34670	0.69	6.0E-07	BE98012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
8832	21524	34671	0.69	6.0E-07	BE98012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
10497	23143	36369	0.57	6.0E-07	AA320332.1	EST_HUMAN	EST22872 Adipose tissue, white II Homo sapiens cDNA 5' end
10497	23143	36370	0.67	6.0E-07	AA320332.1	EST_HUMAN	EST22872 Adipose tissue, white II Homo sapiens cDNA 5' end
11382	23989	37290	1.46	6.0E-07	X15804.1	NT	Human mRNA for alpha-actinin
7913	20608	33739	1.91	5.0E-07	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434N0323 5'
8042	20736	33869		5.0E-07	AA18026.1	EST_HUMAN	z067612.s1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:767758 3' similar to TR:G1304125
9574	22227	35412	2.68	5.0E-07	BF154912.1	EST_HUMAN	G1304125 PMS4 MRNA
11535	24135	37441	1.98	5.0E-07	BE148597.1	EST_HUMAN	RCO-BT0812-250900-032-009 BT0812 Homo sapiens cDNA
11535	24135	37442	1.98	5.0E-07	BE148597.1	EST_HUMAN	MRO-HT0241-150500-010-502 HT0241 Homo sapiens cDNA
918	13685	26349	1.59	4.0E-07	BE004436.1	EST_HUMAN	MRO-HT0241-150500-010-502 HT0241 Homo sapiens cDNA
928	13695	26359	1.04	4.0E-07	AB030176.1	NT	CMO-BN0106-170300-293-006 BN0106 Homo sapiens cDNA
928	13695	26360	1.04	4.0E-07	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
1903	14640	27349	1.07	4.0E-07	5453572	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds
						NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5478	18277	31172	0.61	4.0E-07	4557326	NT	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA
5765	18556	31482	0.95	4.0E-07	U06002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNIR2A) mRNA, complete cds
5765	18556	31483	0.95	4.0E-07	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNIR2A) mRNA, complete cds
6725	19559	32590	6.47	4.0E-07	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase 1, long form
6725	19559	32591	6.47	4.0E-07	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase 1, long form
6921	19657	32703	1	4.0E-07	7710125	NT	Homo sapiens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA
6988	19450	32488	1.05	4.0E-07	11422155	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8036	20731	33863	0.57	4.0E-07	4557708	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2) mRNA
8258	20950	34087	2.63	4.0E-07	11421793	NT	Homo sapiens v-erb avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
8518	21210	34353	0.76	4.0E-07	11423233	NT	Homo sapiens cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA
9147	21878	35043	1.23	4.0E-07	AB011168.1	NT	Homo sapiens mRNA for KIAA0504 protein, partial cds
9147	21878	35044	1.23	4.0E-07	AB011168.1	NT	Homo sapiens mRNA for KIAA0504 protein, partial cds
11116	23788	37082	1.88	4.0E-07	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11116	23788	37063	1.88	4.0E-07	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11412	23179	38407	3.61	4.0E-07	AB042557.1	NT	Homo sapiens mRNA, similar to rat myomegalin, complete cds
11415	23182	38411	1.62	4.0E-07	AB033116.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
11415	23182	38412	1.62	4.0E-07	AB033116.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
12180	24652		7.76	4.0E-07	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
236	13046	25685	1.14	3.0E-07	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
854	13624	26294	29.53	3.0E-07	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
854	13624	26295	29.53	3.0E-07	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1422	15569	26855	1.29	3.0E-07	4768813	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
2440	15529	27895	1.68	3.0E-07	U36255.1	NT	Human beta-prime-adaplin (BAM22) gene, exon 7
3254	16016	28067	1.3	3.0E-07	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
4729	17461	30098	12.98	1.0E-07	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
6333	19103	32091	2.48	1.0E-07	BE568486.1	EST_HUMAN	60133620F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3681821 5'
9344	20415	33534	1.16	1.0E-07	AW379876.1	EST_HUMAN	RCO-HT0258-21199-011-q05 HT0258 Homo sapiens cDNA
9344	20415	33535	1.16	1.0E-07	AW379876.1	EST_HUMAN	RCO-HT0258-21199-011-q05 HT0258 Homo sapiens cDNA
9684	22316	35513	1.6	1.0E-07	R10887.1	EST_HUMAN	y38c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:129134 3'
10604	23288	36538	3.44	1.0E-07	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
10604	23288	36539	3.44	1.0E-07	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11250	23941	37235	2.03	1.0E-97	AA553761.1	EST_HUMAN	nk29g02.s1 NCI_CGAP_Cot11 Homo sapiens cDNA clone IMAGE:1014862 3'
11445	23212	36443	14.01	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S16 (RPS16), mRNA
11445	23212	36444	14.01	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S16 (RPS16), mRNA
881	13650	26319	3.52	9.0E-98	BE080973.1	EST_HUMAN	PM4-BT0724-010400-008-s12 BT0724 Homo sapiens cDNA
1253	14002	26670	1.12	9.0E-98	8303092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
6210	18865		0.71	9.0E-98	AJ250713.1	NT	Homo sapiens CLDN12 gene for claudin-12
7180	19876	32949	0.67	9.0E-98	7681871	NT	Homo sapiens leucyl-RNA synthetase, mitochondrial (KIAA0028), mRNA
7288	19869	33048	0.6	9.0E-98	11419408	NT	Homo sapiens A kinase (PRKA) anchor protein (yotiao) 9 (AKAP9), mRNA
7825	20520	33646	4.79	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
7825	20520	33647	4.79	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
9014	21704	34854	6.28	9.0E-98	X06989.1	NT	Homo sapiens death-associated protein (DAP), mRNA
9124	21812	34977	1.5	9.0E-98	11321580	NT	Human mRNA for amyloid A4(751) protein
9192	21862	35027	1.59	9.0E-98	AB037786.1	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9238	21917		0.86	9.0E-98	AF057728.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
9267	22021	35190	1.14	9.0E-98	4507070	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9267	22021	35191	1.14	9.0E-98	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10160	22808	36026	0.45	9.0E-98	AF141325.2	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10926	23606	36856	2.63	9.0E-98	AB023222.1	NT	Homo sapiens Inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds
10926	23606	36857	2.63	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11004	23676	36832	1.39	9.0E-98	11418082	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11850	24434	37776	1.39	9.0E-98	AB011541.1	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 7 (MAP3K7), mRNA
11850	24434	37777	1.39	9.0E-98	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
1351	14099	26774	0.92	8.0E-98	AB033768.1	NT	Homo sapiens mRNA for MEGF8, partial cds
1719	14462	27161	2.7	8.0E-98	AB017007.1	NT	Homo sapiens HPAD-colony10 mRNA for peptidylarginine deiminase type I, complete cds
1719	14462	27162	2.7	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3775	16527	29166	6.89	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
5991	18772	31735	0.99	5.0E-98	BE865873.1	EST_HUMAN	Human mitochondrial creatine kinase (CKMT) gene, complete cds
2176	14905	27638	1.14	3.0E-98	AJ403124.1	EST_HUMAN	601507503F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908097 5'
2613	15324	28067	0.89	3.0E-98	AB014607.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
2753	15458		2.9	3.0E-98	AA077498.1	EST_HUMAN	Homo sapiens mRNA for KIAA0707 protein, partial cds
6847	19547	32576	1.9	3.0E-98	11419210	NT	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
6847	19547	32577	1.9	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6847	19547	32577	1.9	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8649	21341	34485	2.73	3.0E-08	H46936.1	EST_HUMAN	yo17g09.r1 Soares adult brain N2b5f1b55Y Homo sapiens cDNA clone IMAGE:178240 5'
9197	21896	35030	0.48	3.0E-08	8922096	NT	Homo sapiens uncharacterized bone marrow protein BM039 (BM039), mRNA
9783	22434	35639	1.42	3.0E-08	AJ403124.1	EST_HUMAN	AJ403124.3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone JB
9783	22434	35640	1.42	3.0E-08	AJ403124.1	EST_HUMAN	AJ403124.3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone JB
10371	23017	36233	0.96	3.0E-08	BE900454.1	EST_HUMAN	601673688F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3956517 5'
10872	23552	36799	4.11	3.0E-08	U56909.1	NT	Human fumase precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
11863	24447	37788	1.56	3.0E-08	L26405.1	NT	Homo sapiens (huc) mRNA, complete cds
12668	25262		1.47	3.0E-08	BE382519.1	EST_HUMAN	601287955F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628213 5'
12751	25013		3.56	3.0E-08	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
2071	14903	27531	2.68	2.0E-08	BE294281.1	EST_HUMAN	601172658F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5'
2231	14959	27699	1.53	2.0E-08	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
4264	17005	29637	0.8	2.0E-08	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4306	17045	29670	3.21	2.0E-08	4758331	NT	Homo sapiens fatty-acid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA
4778	17508	30129	1.34	2.0E-08	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
4778	17508	30130	1.34	2.0E-08	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
5131	17849	30468	1.39	2.0E-08	4758975	NT	Homo sapiens protein tyrosine kinase 2 beta (PTK2B) mRNA
5292	18097	30757	4.03	2.0E-08	7706512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6557	19322	32329	1.15	2.0E-08	4505798	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7523	20194	33286	1.07	2.0E-08	11431271	NT	Homo sapiens hypodermal protein FLJ10488 (FLJ10488), mRNA
7523	20194	33287	1.07	2.0E-08	11431271	NT	Homo sapiens hypodermal protein FLJ10488 (FLJ10488), mRNA
8506	21198	34342	4.94	2.0E-08	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8506	21198	34343	4.94	2.0E-08	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8591	21283	34421	0.58	2.0E-08	L78886.1	NT	Homo sapiens NKAT4b mRNA, complete cds
8591	21283	34422	0.58	2.0E-08	L78886.1	NT	Homo sapiens NKAT4b mRNA, complete cds
9437	22115	35290	1.48	2.0E-08	X12884.1	NT	H. sapiens arginase gene exon 3 (EC 3.5.3.1)
10313	22980		1.37	2.0E-08	7705868	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
11155	23822	37103	1.42	2.0E-08	U22028.1	NT	Human cytochrome P450 (CYP2A13) gene, complete cds
396	13181	25829	16.4	1.0E-08	A1862007.1	EST_HUMAN	W36804.x1 NCL_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2281743 3' similar to SW:RL2B_HUMAN
442	13228	25871	2.12	1.0E-08	AW988611.1	EST_HUMAN	P28316 60S RIBOSOMAL PROTEIN L23A ;
1789	14520	27237	11.24	1.0E-08	N46818.1	EST_HUMAN	PMO-BN0085-100300-001-c06 BN0085 Homo sapiens cDNA Y23105.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243585 5' similar to PIR:S64204 S64204 ribosomal protein L29 - human ;

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5234	18040	30668	3.4	1.0E-08	AA195954.1	EST_HUMAN	zp98c09.r1 Stratagene muscle 837209 Homo sapiens cDNA clone IMAGE:628240 5' similar to TR:G806562
5482	18281	31178	1.1	1.0E-08	BE390627.1	EST_HUMAN	G806662 NEBULIN ;
5482	18281	31179	1.1	1.0E-08	BE390627.1	EST_HUMAN	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3806692 5'
8896	21587	34728	2.7	1.0E-08	AF141349.1	NT	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3806692 5'
8896	21587	34727	2.7	1.0E-08	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
6728	18520	31441	0.88	9.0E-09	A1905004.1	EST_HUMAN	Homo sapiens beta-tubulin mRNA, complete cds
5728	18520	31442	0.88	9.0E-09	A1905004.1	EST_HUMAN	QV-BT073-191288-012 BT073 Homo sapiens cDNA
5949	18731	31891	4.21	9.0E-09	AW98635.1	EST_HUMAN	QV-BT073-191288-012 BT073 Homo sapiens cDNA
11068	23736	37009	2.75	9.0E-09	AK479829.1	EST_HUMAN	EST380711 MAGe resequences, MAGJ Homo sapiens cDNA
11068	23736	37010	2.75	9.0E-09	AK479829.1	EST_HUMAN	tm68h07.x1 NC1 CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
11390	23998	37298	2.13	9.0E-09	AA134604.1	EST_HUMAN	tm68h07.x1 NC1 CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
8627	21319	34461	1.96	8.0E-09	9635487	NT	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
5743	18536	31458	10.03	7.0E-09	AF035808.1	NT	zr90d02.r1 Stratagene lung carcinoma 837218 Homo sapiens cDNA clone IMAGE:565443 5' similar to
11610	24208	37532	2.99	7.0E-09	AF001886.1	NT	TR:G862394 G862394 GPI-ANCHORED PROTEIN P137 ;
459	13244	25888	1.89	6.0E-09	U10991.1	NT	Human endogenous retrovirus, complete genome
3968	16618	29258	1.15	6.0E-09	AW976364.1	EST_HUMAN	Homo sapiens occlillin (hLn) gene, exon 5
4689	17433	30064	1.21	6.0E-09	4502660	NT	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon
6503	19268	32270	0.72	6.0E-09	7706136	NT	Human G2 protein mRNA, partial cds
6578	19341	32354	1.01	6.0E-09	L43810.1	NT	EST389473 MAGe resequences, MAGN Homo sapiens cDNA
6578	19341	32355	1.01	6.0E-09	L43810.1	NT	Homo sapiens GD34 antigen (GD34) mRNA
8003	20698	33828	1.18	6.0E-09	X09101.1	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
8022	20717	33849	0.53	6.0E-09	6801589	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8663	21355	34352	2.28	6.0E-09	AB038429.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8762	21454	34602	3.33	6.0E-09	AF080255.1	NT	H. sapiens mRNA for estrogen receptor
8762	21454	34603	3.33	6.0E-09	AF080255.1	NT	Homo sapiens arkyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8821	21513	34657	0.6	6.0E-09	11431994	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
8821	21513	34658	0.6	6.0E-09	11431994	NT	Homo sapiens Iodester protein mRNA, complete cds
10620	23313	36553	3.89	6.0E-09	11628299	NT	Homo sapiens Iodester protein mRNA, complete cds
11433	23200	36431	2.01	6.0E-09	9910279	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
11433	23200	36432	2.01	6.0E-09	9910279	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
							Homo sapiens BH3 interacting domain death agonist (BID), mRNA
							Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
							Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA

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1957	14693	27406	1.38	5.0E-09	Y11365.1	NT	H1.seplens IMPA gene, exon 8
4528	17261	29895	1.56	5.0E-09	AF098680.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
12208	24674		2.81	5.0E-09	BE800177.1	EST_HUMAN	601513157F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914391 5'
8220	20914		4.88	3.0E-09	M95586.1	NT	Human E2AHLA fusion protein (E2AHLF) mRNA, complete cds
1217	13088		6.88	2.0E-09	AW274792.1	EST_HUMAN	xp09e06.x1 NCL_CGAP_HN8 Homo sapiens cDNA clone IMAGE:2739874 3' similar to gb:M31212 MYOSIN
3253	16015	28666	1.28	2.0E-09	M30838.1	NT	LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);
4506	17241	29874	1.04	2.0E-09	AF095703.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
7574	20243	33348	0.58	2.0E-09	AF257737.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHISC) gene, nuclear gene encoding mitochondrial protein, complete cds
8808	21300	34444	9.55	2.0E-09	W23507.1	EST_HUMAN	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
9050	21739	34897	0.76	2.0E-09	R78254.1	EST_HUMAN	zb46d06.r1 Soares_fetal_jung_NbHL19W Homo sapiens cDNA clone IMAGE:306635 5' similar to
11049	23719	36990	3.39	2.0E-09	AF247457.2	NT	gbM15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
11798	24378	37708	1.46	2.0E-09	10863960	NT	y81b09.r1 Soares_placenta_Nb2HP Homo sapiens cDNA clone IMAGE:145825 5'
307	13111	26751	1.63	1.0E-09	AF114487.1	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
370	13186	25909	1.02	1.0E-09	11526180	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
1400	14147	26828	2.09	1.0E-09	M30838.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
1549	14295	26981	2.64	1.0E-09	AF192523.1	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
1549	14295	26982	2.64	1.0E-09	AF192523.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
1920	14657	27367	1.41	1.0E-09	4503730	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1920	14657	27368	1.41	1.0E-09	4503730	NT	Homo sapiens FK506-binding protein 6 (38kD) (FKBP6) mRNA, and translated products
3083	15848	28489	1.36	1.0E-09	J03171.1	NT	Homo sapiens FK506-binding protein 6 (38kD) (FKBP6) mRNA, and translated products
4347	17086	29715	2.82	1.0E-09	AF098018.1	NT	Human Interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds
4347	17086	29716	2.82	1.0E-09	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
5658	18463	31367	0.88	1.0E-09	7862349	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
6707	19622	32685	1.28	1.0E-09	11421007	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0866), mRNA
6707	19622	32686	1.28	1.0E-09	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
7039	25104	32786	0.76	1.0E-09	X98022.1	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
9099	21787		1.49	1.0E-09	11419721	NT	H1.seplens E6-AP gene exon 2
9420	22098	35270	1.71	1.0E-09	AW340174.1	EST_HUMAN	Homo sapiens ALEX1 protein (LOC51308), mRNA
11084	23754	37029	2.01	1.0E-09	7427514	NT	h02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2808371 3' similar to TR:O02711
11084	23754	37030	2.01	1.0E-09	7427514	NT	O02711 PRO-POL-DUTPASE POLYPROTEIN;
11084	23754	37030	2.01	1.0E-09	7427514	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA
11084	23754	37030	2.01	1.0E-09	7427514	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA

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11141	23808	37088	1.8	1.0E-99	5901979	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
11350	24040	37343	2.77	1.0E-99	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11984	24525		6.68	1.0E-99	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1	12830	25443	0.95	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
2	12830	25443	1.53	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
66	12894	25528	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
66	12894	25527	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
85	12911	25550	0.69	1.0E-100	AW275237.1	EST_HUMAN	xv78b11.x1 NCI CGAP Bm63 Homo sapiens cDNA clone IMAGE:2824605 3'
165	12979	25618	1.24	1.0E-100	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
309	13113	25753	0.83	1.0E-100	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
334	13136	25770	3.06	1.0E-100	T05087.1	EST_HUMAN	EST02875 Fetal brain, Stratiogene (catd936206) Homo sapiens cDNA clone HIFBGR32
427	13213		1.28	1.0E-100	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
477	13263		7.19	1.0E-100	X8983.1	NT	G. gorilla DNA for ZNF80 gene homolog
496	13280	25915	1.33	1.0E-100	BE180609.1	EST_HUMAN	RC3-H1T0628-04500-022-509 HT0626 Homo sapiens cDNA
998	13758	26418	3.22	1.0E-100	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
998	13758	26419	3.22	1.0E-100	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1415	14163	26846	3.14	1.0E-100	BF530735.1	EST_HUMAN	80207204F1 NCI CGAP Bm67 Homo sapiens cDNA clone IMAGE:4215039 5'
1538	14285		1.14	1.0E-100	AW207555.1	EST_HUMAN	UHL-B11-afk-c-07-0-UI.s1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722184 3'
1543	14289	26976	1.81	1.0E-100	AI200857.1	EST_HUMAN	qf8209.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW-CYT_COTJA
1856	14594	27309	1.41	1.0E-100	AB032994.1	NT	P81061 CYSTATIN1
2238	14986		1.39	1.0E-100	D83349.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2439	15169	27894	1.33	1.0E-100	X82498.1	NT	Rat mRNA for short type PB-cadherin, complete cds
2710	15417	28156	2.36	1.0E-100	D11078.1	NT	H. sapiens mRNA for IFN-gamma (pKC-0)
3018	15784		5.5	1.0E-100	AF067364.1	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
4186	16927	29558	1.52	1.0E-100	4503792	NT	Homo sapiens RGH2 gene, retrovirus-like element
4211	16952	29676	2.14	1.0E-100	AF036943.1	NT	Homo sapiens myotubularin-related protein 1a mRNA, partial cds
4418	17154	29785	1.03	1.0E-100	5032104	NT	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA
5031	17751	30362	2.66	1.0E-100	5032104	NT	Homo sapiens myelin transcription factor 1-like (MYT1L) mRNA, complete cds
5031	17751	30363	2.66	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5207	18015	30637	1.62	1.0E-100	BF244218.1	EST_HUMAN	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA

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5421	18220	30831	0.59	1.0E-100	AW075983.1	EST_HUMAN	x88201.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2573305 3' similar to gb: X12433
5614	18410	31323	1.33	1.0E-100	AU118182.1	EST_HUMAN	PROTEIN PHPS1-2 (HUMAN);
5660	18455	31369	1.26	1.0E-100	AF135118.1	NT	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003046 5'
5747	18539	31461	0.8	1.0E-100	X14690.1	NT	Homo sapiens NF-E2-related factor 3 gene, complete cds
6071	18860	31814	0.94	1.0E-100	4557568	NT	Human mRNA for plasma inter-alpha-trypsin inhibitor heavy chain H(3)
6071	18850	31815	0.94	1.0E-100	4557568	NT	Human sapiens ER to nucleus signalling 1 (ERN1) mRNA
6343	19113		1.87	1.0E-100	5729867	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6403	19174	32173	5.84	1.0E-100	AU140214.1	EST_HUMAN	Homo sapiens hsd domain and RLD 2 (HERC2), mRNA
6457	19224	32224	1.97	1.0E-100	AU136800.1	EST_HUMAN	AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5'
6585	19349	32362	1.37	1.0E-100	R10887.1	EST_HUMAN	AU136800 PLACE1 Homo sapiens cDNA clone PLACE1005089 5'
6670	19587	32622	0.9	1.0E-100	7382479	NT	y58c08.s1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:129134 3'
6742	19576	32608	1.19	1.0E-100	AA498841.1	EST_HUMAN	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
6742	19576	32608	1.19	1.0E-100	AA498841.1	EST_HUMAN	se33b06.l1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR:G487418
6786	19530	32557	1.13	1.0E-100	BF376478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN.;
6786	19530	32558	1.13	1.0E-100	BF376478.1	EST_HUMAN	MR1-TN0046-080800-004-b05 TN0046 Homo sapiens cDNA
6793	19537	32565	6.76	1.0E-100	X04571.1	NT	MR1-TN0046-080800-004-b05 TN0046 Homo sapiens cDNA
8430	21123	34261	7.17	1.0E-100	BF103853.1	EST_HUMAN	Human mRNA for kidney epidermal growth factor (EGF) precursor
8466	21158		4.8	1.0E-100	AL163203.2	NT	601647357F1 NIH_MGC_61 Homo sapiens cDNA clone IMAGE:3931310 5'
8912	21603	34746	0.68	1.0E-100	AU116951.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
8912	21603	34747	0.68	1.0E-100	AU116951.1	EST_HUMAN	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9132	21820	34986	3.52	1.0E-100	AB040918.1	NT	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9210	22089		2.78	1.0E-100	A1872388.1	EST_HUMAN	Homo sapiens mRNA for KIAA1495 protein, partial cds
9333	20404	33520	1.82	1.0E-100	AW998611.1	EST_HUMAN	W37509.x1 NCI_CGAP_P728 Homo sapiens cDNA clone IMAGE:2489920 3' similar to contains element
9386	22048		7.61	1.0E-100	AU12720.1	EST_HUMAN	MER22 repetitive element;
9483	22136	35316	2.11	1.0E-100	AB046846.1	NT	PMO-BN0066-100300-001-c08 BN0065 Homo sapiens cDNA
9483	22136	35317	2.11	1.0E-100	AB046846.1	NT	AU12720 NT2RP2 Homo sapiens cDNA clone NT2RP2001918 5'
9743	22394	35598	1.68	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1628 protein, partial cds
9743	22394	35599	1.68	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1628 protein, partial cds
9905	22554	35749	0.49	1.0E-100	AV732101.1	EST_HUMAN	h83c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5'
10368	23014	38230	1.47	1.0E-100	BF347519.1	EST_HUMAN	h83c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5'
							AV732101 HTF Homo sapiens cDNA clone HTFBIG01 5'
							602020554F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156165 5'

Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10458	23104		2.2	1.0E-100	Y10391.1	NT	Human endogenous retrovirus HERV-K, pol gene
10958	23349	36586	6.27	1.0E-100	BF327292.1	EST_HUMAN	MR0-BN0070-270300-008-h11 BN0070 Homo sapiens cDNA
11328	24017	37319	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
11328	24017	37320	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds, and unknown gene
11356	12830	25443	2.11	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
11633	24230		1.59	1.0E-100	AW875464.1	EST_HUMAN	QV2-PT0012-010300-070-404 PT0012 Homo sapiens cDNA
11681	24276		1.48	1.0E-100	AF286285.1	NT	Homo sapiens golgin-like protein (GLP) gene, complete cds
11749	24340	37688	1.57	1.0E-100	AA115605.1	EST_HUMAN	z889a03.r1 Soares_pregnant_uterus_NH-IPU Homo sapiens cDNA clone IMAGE:489984 5'
11749	24340	37688	1.57	1.0E-100	AA115605.1	EST_HUMAN	z889a03.r1 Soares_pregnant_uterus_NH-IPU Homo sapiens cDNA clone IMAGE:489984 5'
11907	24471	37808	6.67	1.0E-100	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12031	25278		1.51	1.0E-100	BF446549.1	EST_HUMAN	7q88K03.x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to TR:Q21897 Q21897
12200	24868	31071	3.67	1.0E-100	11545732	NT	QOSMID R151, [2] TR:Q8UJA08 ;
12792	25044	30968	4.62	1.0E-100	11417974	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
75	12902	25639	1.75	1.0E-101	7110714	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
75	12902	25640	1.76	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
671	13447	26087	1.62	1.0E-101	AB007915.2	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
688	13463	26111	5.88	1.0E-101	7110734	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
688	13463	26112	5.88	1.0E-101	7110734	NT	Homo sapiens mRNA for KIAA0446 protein, partial cds
754	13528	26185	1.99	1.0E-101	7637434	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
833	13603	26273	1.6	1.0E-101	4503914	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
904	13671	26335	1.22	1.0E-101	Z20656.1	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
964	13729	26396	14.28	1.0E-101	BF881218.1	EST_HUMAN	Homo sapiens pascadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA
1030	13790	26449	1.63	1.0E-101	A1221878.1	EST_HUMAN	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylmethanimidazole synthetase (GART) mRNA
1577	14324	27012	1.46	1.0E-101	5921460	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
1577	14324	27013	1.46	1.0E-101	5921460	NT	602156474F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4297291 6'
1740	14482	27182	1.52	1.0E-101	7662183	NT	q909a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
1740	14482	27183	1.52	1.0E-101	7662183	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1938	14673	27389	1.62	1.0E-101	4502998	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
2050	14783	27510	1.79	1.0E-101	BE843070.1	EST_HUMAN	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
2349	15592	27808	1.71	1.0E-101	5728982	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
2620	15332	28076	2.8	1.0E-101	X72993.1	NT	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1) mRNA
							RC3-ST0281-160800-016-H09 ST0281 Homo sapiens cDNA
							Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
							H. sapiens EWS gene, exon 5

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2747	15452	28192	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIIR gene (partial), exon 12
2747	15452	28193	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIIR gene (partial), exon 12
2955	15721		13.73	1.0E-101	AJ252312.1	NT	Homo sapiens genomic downstream Rhesus box
3198	15961	28613	1.98	1.0E-101	4885270	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
3235	15997		2.27	1.0E-101	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862088 5'
3375	16134	28790	1.93	1.0E-101	AW965568.1	EST_HUMAN	EST377628 IMAGE resequenced, MAGI Homo sapiens cDNA
3396	15452	28182	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIIR gene (partial), exon 12
3396	15452	28183	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIIR gene (partial), exon 12
3557	16607	29246	3.69	1.0E-101	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
4974	17697	30304	1.16	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
4974	17697	30305	1.16	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5235	18041	30889	1.22	1.0E-101	AW965139.1	EST_HUMAN	EST377212 IMAGE resequenced, MAGI Homo sapiens cDNA
5013	18698	31651	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
5913	18698	31652	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6393	19358	32372	1.27	1.0E-101	11430734	NT	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7173	19859		1.01	1.0E-101	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7220	19905	32977	5.67	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7220	19905	32978	5.57	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7376	20056	33138	7.48	1.0E-101	AW008476.1	EST_HUMAN	ww55f12.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2533487 3'
7474	20147		1.79	1.0E-101	BE257384.1	EST_HUMAN	601109217F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3349901 5'
7623	20289	33398	7.43	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA
7813	20508	33631	0.84	1.0E-101	BE276821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345899 5'
7813	20508	33632	0.84	1.0E-101	BE276821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345899 5'
7954	20949	33772	2.88	1.0E-101	BF029174.1	EST_HUMAN	6011764698F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3998837 5'
8221	20915	34050	0.67	1.0E-101	AW630070.1	EST_HUMAN	hh74g10.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143
8221	20915	34051	0.67	1.0E-101	AW630070.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
8908	21599	34741	1.08	1.0E-101	AA038800.1	EST_HUMAN	hh74g10.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143
9229	21908	35090	0.83	1.0E-101	AB037772.1	NT	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9229	21908	35081	0.83	1.0E-101	AB037772.1	NT	zkl29g08.f1 Soares_pregnant_uterus_Nbr-IPU Homo sapiens cDNA clone IMAGE:471898 5' similar to
9362	20432	33563	17.13	1.0E-101	X60069.1	NT	PIR:S54640 S54640 YD6335.03c protein - yeast;
9362	20432	33554	17.13	1.0E-101	X60069.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9362	20432	33554	17.13	1.0E-101	X60069.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9362	20432	33554	17.13	1.0E-101	X60069.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase
9362	20432	33554	17.13	1.0E-101	X60069.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9375	21950	35123	17.01	1.0E-101	9845492	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
9657	22309	35506	6.24	1.0E-101	BE619687.1	EST_HUMAN	601472808T1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:3876953 3'
9657	22309	35507	6.24	1.0E-101	BE619687.1	EST_HUMAN	601472808T1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:3875953 3'
9794	22445	35950	0.72	1.0E-101	10863960	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
10308	22955	36171	1.49	1.0E-101	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10447	23093	36323	0.94	1.0E-101	BE973848.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
10447	23093	36324	0.94	1.0E-101	BE973848.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
10788	23471	36713	1.99	1.0E-101	S38327.1	NT	branched-chain alpha-keto acid dehydrogenase complex E1 alpha subunit [human, Genomic, 195 nt, segment 8 of 9]
11053	23723	36994	2.11	1.0E-101	AB020628.1	NT	Homo sapiens mRNA for KIAA0819 protein, partial cds
11398	24004	37307	2.06	1.0E-101	AI590078.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN); HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11398	24004	37308	2.06	1.0E-101	AI590078.1	EST_HUMAN	HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11763	24354	37696	1.31	1.0E-101	AI908188.1	EST_HUMAN	RC-BT163-290499-085 BT163 Homo sapiens cDNA
11763	24354	37697	1.31	1.0E-101	AI908188.1	EST_HUMAN	RC-BT163-290499-085 BT163 Homo sapiens cDNA
12461	24829		13.68	1.0E-101	AW939051.1	EST_HUMAN	QV1-DT0068-240200-085-a01 DT0068 Homo sapiens cDNA
38	12866	25485	2	1.0E-102	AF012672.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
332	13133	25787	4.35	1.0E-102	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
758	13530	26190	1.59	1.0E-102	4557634	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
1095	13853	26512	2.8	1.0E-102	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
1245	13994	26680	1.67	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1245	13994	26681	1.67	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1261	14010	26678	0.99	1.0E-102	4826977	NT	Homo sapiens reelin (RELN) mRNA
1398	14145	26823	119.7	1.0E-102	BE408447.1	EST_HUMAN	601296982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629601 5'
2307	15032	27769	1.88	1.0E-102	AI124689.1	EST_HUMAN	am80c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95.;
2307	15032	27770	1.88	1.0E-102	AI124689.1	EST_HUMAN	am80c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95.;
3061	15827	28472	1.32	1.0E-102	7661979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
3130	15895	28538	4.76	1.0E-102	AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
3130	15895	28539	4.76	1.0E-102	AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
4207	16948	28574	1.67	1.0E-102	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
4378	17115	29748	2.17	1.0E-102	BE281310.1	EST_HUMAN	601107843F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3343882 5'

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5287	18082	30753	1.87	1.0E-102	AF067133.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5663	18458		9.17	1.0E-102	AB034851.1	NT	Homo sapiens HSC54 mRNA for heat shock cognate protein 54, complete cds
5698	18492	31414	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5698	18492	31415	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5704	18498	31420	0.81	1.0E-102	11433046	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
6200	18978	31954	2.83	1.0E-102	AI459825.1	EST_HUMAN	Homo sapiens hct domain and RLD 2 (HIERC2), mRNA
7036	19728	32785	0.75	1.0E-102	BE729323.1	EST_HUMAN	er2f09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151785 3' similar to TR:Q13137
7065	19756	32821	1.04	1.0E-102	BE386106.1	EST_HUMAN	Q13137 NDP52.1
7255	19839	33014	8.23	1.0E-102	AJ238894.1	NT	601561505F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831241 5'
7524	20195	33288	2.48	1.0E-102	AV710738.1	EST_HUMAN	601277215F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618243 5'
8122	20816	33952	3.91	1.0E-102	BE763051.1	EST_HUMAN	Homo sapiens mRNA for Centaurin-alpha2 protein
8201	20895	34032	1.32	1.0E-102	BE910655.1	EST_HUMAN	AV710738 Cu Homo sapiens cDNA clone CuAAKD03 5'
8392	21085	34218	2.21	1.0E-102	AV694817.1	EST_HUMAN	QV3-NT0025-210600-238-H08 NT0025 Homo sapiens cDNA
8392	21085	34219	2.21	1.0E-102	AB007823.1	EST_HUMAN	601501107F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3903145 5'
8501	21193	34335	1.19	1.0E-102	AB007823.1	EST_HUMAN	601501107F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3903145 5'
8629	21521	34687	0.63	1.0E-102	BE388063.1	EST_HUMAN	AV694817 GKC Homo sapiens cDNA clone GKCEEE11 5'
8629	21521	34698	0.63	1.0E-102	BE388063.1	EST_HUMAN	AV694817 GKC Homo sapiens cDNA clone GKCEEE11 5'
9150	21881	35049	0.52	1.0E-102	AI762859.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
9181	21851	35017	0.81	1.0E-102	AV755842.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:3605536 5'
9221	21900	35069	2.28	1.0E-102	IT70393.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
9221	21900	35070	2.28	1.0E-102	IT70393.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
9311	21978	35151	3.78	1.0E-102	AU124629.1	EST_HUMAN	wf63808.x1 NCI_CGAP_Kd12 Homo sapiens cDNA clone IMAGE:2397971 3' similar to contains MER4.1t
10281	22929		0.69	1.0E-102	AF153715.1	NT	MER4 MER4 repetitive element
10367	23013	36228	3.67	1.0E-102	AI905037.1	EST_HUMAN	MER4 MER4 repetitive element
10367	23013	36229	3.67	1.0E-102	AI905037.1	EST_HUMAN	MER4 MER4 repetitive element
10428	23074	36295	1.24	1.0E-102	AA970786.1	EST_HUMAN	AV755842 BM Homo sapiens cDNA clone BMFAUD08 5'
11008	23680	36937	2.56	1.0E-102	4507822	NT	AV755842 BM Homo sapiens cDNA clone BMFAUD08 5'
11008	23680	36938	2.56	1.0E-102	4507822	NT	Yd13407.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:67021 5'
11290	23951	37248	1.55	1.0E-102	AA888675.1	EST_HUMAN	Yd13407.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:67021 5'
11360	23987	37287	3.01	1.0E-102	BF359243.1	EST_HUMAN	Yd13407.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone NT2RM4000309 5'
							AU124629 NT2RM4 Homo sapiens cDNA clone NT2RM4000309 5'
							Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
							Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
							RC-BT074-280499-014 BT074 Homo sapiens cDNA
							RC-BT074-280499-014 BT074 Homo sapiens cDNA
							on67h04.a1 Soares_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1580823 3' similar to
							SW:CAV2_HUMAN P51636 CAVEOLIN-2. [1];
							Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
							Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
							sk49h10.a1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1408947 3'
							RC6-E10072-150800-011-F01 E10072 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11710	24305	37631	3.67	1.0E-102	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
11911	24475		3.52	1.0E-102	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
12450	24820	31023	4.68	1.0E-102	AW300682.1	EST_HUMAN	x07c12.x1 NCI_CGAP_Oc20 Homo sapiens cDNA clone IMAGE:2666038 3'
67	12895	25528	1.19	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
67	12895	25529	1.19	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
98	12924	25561	10.5	1.0E-103	D87078.2	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
203	13016	25656	1.45	1.0E-103	5453793	NT	Homo sapiens nuclear protein (KKE/D repeat) (NOP56) mRNA
960	13725	26389	0.79	1.0E-103	AJ278348.1	NT	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
1221	13971	26843	10.23	1.0E-103	BE877541.1	EST_HUMAN	601485338F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887876 5'
1591	14337	27026	3.76	1.0E-103	AF012872.1	NT	Homo sapiens aryl GDS-ASSOCIATED PROTEIN (SMAP), mRNA
1807	14844	27354	1.75	1.0E-103	7857592	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
1968	14704	27420	1.44	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
1968	14704	27421	1.44	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2303	15028	27795	1.15	1.0E-103	AU134991.1	EST_HUMAN	AU134991 PLACE1 Homo sapiens cDNA clone PLACE1000965 5'
2452	15170	27909	1.33	1.0E-103	AF060668.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
2603	15316	28055	1.23	1.0E-103	BF529379.1	EST_HUMAN	602041882F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4179429 5'
2603	15316	28056	1.23	1.0E-103	BF529379.1	EST_HUMAN	602041882F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4179429 5'
3094	18630		2.68	1.0E-103	BE744722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834315 5'
3374	18133	28789	4.1	1.0E-103	AW296245.1	EST_HUMAN	UI-H-BW0-aj-h-11-0-JL.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733165 3'
3433	18189	28837	0.99	1.0E-103	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
3737	18490		8.55	1.0E-103	AF023961.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
3774	18526	29165	1.23	1.0E-103	AA485693.1	EST_HUMAN	ab10d12.s1 Stratiotes lung (#837210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element ;
3810	18562	29195	1.72	1.0E-103	11430876	NT	Homo sapiens neuropilin 1 (NRP1), mRNA
3985	16733	29367	3.47	1.0E-103	T29683.1	EST_HUMAN	seq340 b4HB3MA-Cat109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cat109+10-Bio-7 3'
5844	18632	31567	0.98	1.0E-103	BF569527.1	EST_HUMAN	602186023F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310573 5'
5852	18639	31577	2.62	1.0E-103	AF179995.1	NT	Homo sapiens septin 2 (SEP2) mRNA, partial cds
6174	18951	31923	0.89	1.0E-103	11436053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6174	18951	31924	0.89	1.0E-103	11436053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6368	19137	32132	0.75	1.0E-103	AW954566.1	EST_HUMAN	EST366636 MAGC resequences, MAGC Homo sapiens cDNA
6368	19137	32133	0.75	1.0E-103	AW954566.1	EST_HUMAN	EST366636 MAGC resequences, MAGC Homo sapiens cDNA
6498	25092	32265	1.53	1.0E-103	AA781442.1	EST_HUMAN	4f26e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391452 3'
6535	19301	32304	0.94	1.0E-103	AF033490.1	NT	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4

Table 4
Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6618	19380	32396	1.48	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789 Q13789 ANONYMOUS. ;
6618	19380	32397	1.48	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789 Q13789 ANONYMOUS. ;
6747	17916	30579	1.53	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS184, DXS206, DXS230, DXS239, DXS268, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6747	17916	30580	1.53	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS184, DXS206, DXS230, DXS239, DXS268, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6872	17949	30544	1.27	1.0E-103	11431100	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
6935	19670	32716	0.99	1.0E-103	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), XTS gene and LZTFL1 gene
7127	19815	32883	1.63	1.0E-103	AW965776.1	EST_HUMAN	EST377849 IMAGE2 ressequenced, MAGI Homo sapiens cDNA
7233	19918	32960	6.93	1.0E-103	BE748158.1	EST_HUMAN	601671537F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838545 5'
7671	20335	33446	4.21	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789 Q13789 ANONYMOUS. ;
7671	20335	33447	4.21	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789 Q13789 ANONYMOUS. ;
8187	20881	34019	0.77	1.0E-103	T31080.1	EST_HUMAN	EST27193 Human Brain Homo sapiens cDNA 5' end similar to None
8519	21211	34354	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8519	21211	34355	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8604	21296	34439	1.1	1.0E-103	BF109244.1	EST_HUMAN	760903.x1 Scorea NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3525964 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;
9005	21695	34845	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9005	21695	34846	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9046	21738	34891	1.16	1.0E-103	AA581086.1	EST_HUMAN	nd13c02.s1 NCI CGAP_Ov1 Homo sapiens cDNA clone IMAGE:800162 3' similar to gb:L02426 26S PROTEASE SUBUNIT 4 (HUMAN);
9088	21777	34941	5.04	1.0E-103	AA774980.1	EST_HUMAN	ae84d12.s1 Stratiogene schizo brain S11 Homo sapiens cDNA clone IMAGE:970871 3' similar to gb:X03747 cds1 SODIUMPOTASSIUM-TRANSPORTING ATPASE BETA-1 (HUMAN);
9162	21832	34995	0.56	1.0E-103	BE935842.1	EST_HUMAN	QV2-NN0045-230800-322-b03 NN0045 Homo sapiens cDNA
9162	21832	34996	0.56	1.0E-103	BE935842.1	EST_HUMAN	QV2-NN0045-230800-322-b03 NN0045 Homo sapiens cDNA
9558	22606	35811	1.44	1.0E-103	Z37976.1	NT	H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
9999	22647	35859	1.89	1.0E-103	AW963676.1	EST_HUMAN	EST375749 IMAGE ressequenced, MAGH Homo sapiens cDNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10138	22786	35998	9.2	1.0E-103	A1878956.1	EST_HUMAN	au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518326 5' similar to
10634	23328	36563	3.56	1.0E-103	A1792759.1	EST_HUMAN	TR:O15046 O16046 KIAA0338 ;
10737	23424	36688	2.04	1.0E-103	11424061	NT	002406.y5 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1522283 5' similar to TR:Q82084 Q82084
10737	23424	36689	2.04	1.0E-103	11424061	NT	PHOSPHOLIPASE C NEIGHBORING ;
10748	23434	36677	2.22	1.0E-103	AF149773.1	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10748	23434	36678	2.22	1.0E-103	AF149773.1	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10783	23476	36717	1.3	1.0E-103	X87831.2	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10793	23478	36718	1.3	1.0E-103	X87831.2	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
11347	24037	37340	2.8	1.0E-103	AU136283.1	EST_HUMAN	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
11423	23190	36421	10.74	1.0E-103	L43610.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
11748	24339	37667	2.41	1.0E-103	BE644811.1	EST_HUMAN	Homo sapiens mRNA for partial OCT/pleadin-A2 protein
11937	24494	37667	2.11	1.0E-103	11626291	NT	Homo sapiens mRNA for partial OCT/pleadin-A2 protein
12128	24620	31091	2.83	1.0E-103	AB011399.1	NT	Homo sapiens mRNA for partial OCT/pleadin-A2 protein
227	13030	25676	3.73	1.0E-104	AL037549.3	EST_HUMAN	AU136283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5'
227	13039	25677	3.73	1.0E-104	AL037549.3	EST_HUMAN	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
1881	14618	27328	2.18	1.0E-104	4502428	NT	7668a10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to
2190	14619	27653	3.68	1.0E-104	AA132975.1	EST_HUMAN	contains MER20 t3 MER20 repetitive element ;
2201	14929	27666	2.57	1.0E-104	BE744628.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
2369	15091	27829	1.38	1.0E-104	BF334221.1	EST_HUMAN	Homo sapiens gene for AF-4, complete cds
2369	15091	27830	1.38	1.0E-104	BF334221.1	EST_HUMAN	DKFZp564H1072_r1 564 (synonym: hibr2) Homo sapiens cDNA clone DKFZp564H1072 5'
2438	15158	27893	1.68	1.0E-104	5031570	NT	DKFZp564H1072_r1 564 (synonym: hibr2) Homo sapiens cDNA clone DKFZp564H1072 5'
2507	15224	27965	1.11	1.0E-104	7662125	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2507	15224	27966	1.11	1.0E-104	7662125	NT	zo22c08.s1 Strategene colon (#937204) Homo sapiens cDNA clone IMAGE:587628 3' similar to
2874	15641	28285	7.41	1.0E-104	MB4671.1	NT	gb:Z14116_mel1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN);
2917	15683		2.74	1.0E-104	Y111191.1	NT	801577460F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926438 5'
3386	16145	28996	2.04	1.0E-104	AA319436.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
3587	16341	28987	0.79	1.0E-104	AB033102.1	NT	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
3587	16341	28987	0.79	1.0E-104	AB033102.1	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
3924	16874	29315	0.76	1.0E-104	AB032908.1	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
4344	17083	29712	3.93	1.0E-104	X02761.1	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
							Human lymphocyte antigen CD59/MEM43 mRNA, complete cds
							H. sapiens gene encoding phenylpyruvate tautomerase II
							EST21658 Adrenal gland tumor Homo sapiens cDNA 5' and
							Homo sapiens mRNA for KIAA1276 protein, partial cds
							Homo sapiens mRNA for KIAA1276 protein, partial cds
							Homo sapiens mRNA for KIAA1172 protein, partial cds
							Human mRNA for fibronectin (FN precursor)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4570	17305	29932	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4570	17305	29933	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
5106	17824	30441	1.06	1.0E-104	7857038	NT	Homo sapiens death receptor 6 (DR6), mRNA
5850	18637	31573	1.26	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5850	18637	31574	1.26	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5897	18682	31630	1.12	1.0E-104	AB017332.1	NT	Homo sapiens alk3 mRNA for Aurora/Ipl1-related kinase 3, complete cds
6375	19144	32141	9.51	1.0E-104	AJ768797.1	EST_HUMAN	wf03b12x1 NCI CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN, contains element LTR7 repetitive element ;
6375	19144	32142	9.51	1.0E-104	AJ768797.1	EST_HUMAN	wf03b12x1 NCI CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN, contains element LTR7 repetitive element ;
6551	19316	32322	0.75	1.0E-104	7706512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6706	19621	32663	3.31	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
6706	19621	32664	3.31	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
7125	19813	32881	2.03	1.0E-104	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
8495	21187	34330	0.83	1.0E-104	BF509244.1	EST_HUMAN	UI-H-B14-80w-b-09-0-U1 s1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086176 3'
9095	21754	34915	5.23	1.0E-104	BF448230.1	EST_HUMAN	ncd16g11x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3365948 3'
9163	21833	34997	0.5	1.0E-104	AA682308.1	EST_HUMAN	z198b05.s1 Soares_fetal_liver_aplees_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462897 3'
9184	21854		1.31	1.0E-104	T74219.1	EST_HUMAN	yc83f02.r1 Soares_infant_brain_1NIB Homo sapiens cDNA clone IMAGE:22440 5'
9214	21893	35060	4.27	1.0E-104	AF061395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9214	21893	35061	4.27	1.0E-104	AF061395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9341	20412	33529	4.4	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9341	20412	33530	4.4	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9654	22306	35503	0.85	1.0E-104	AW103848.1	EST_HUMAN	xd76d02x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116
9654	22306	35504	0.85	1.0E-104	AW103848.1	EST_HUMAN	Q24116 HYPOTHETICAL 29.4 KD PROTEIN ;
9847	22497	35698	0.71	1.0E-104	AF113514.1	NT	Q24116 HYPOTHETICAL 29.4 KD PROTEIN ;
9993	22641	35852	2.83	1.0E-104	BE791713.1	EST_HUMAN	Homo sapiens histone acetyltransferase MORF mRNA, complete cds
9993	22641	35853	2.83	1.0E-104	BE791713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10299	22946	36180	1.28	1.0E-104	AV728070.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10339	22986	36204	4.51	1.0E-104	AU130765.1	EST_HUMAN	AV728070 HTC Homo sapiens cDNA clone HTCBYA07 5'
10450	23096	36327	4.41	1.0E-104	U66535.1	NT	AU130765 NT2RP3 Homo sapiens cDNA clone NT2RP3001398 5'
10464	23110		0.82	1.0E-104	11427757	NT	Human beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25
11268	23930	37221	2.07	1.0E-104	BE720191.1	EST_HUMAN	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
							RC0-HT0885-310700-021-509 HT0885 Homo sapiens cDNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11268	23930	37222	2.07	1.0E-104	BE720191.1	EST_HUMAN	RCO-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
11269	23959	37259	4.98	1.0E-104	BF684288.1	EST_HUMAN	602141215F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302507 5'
11590	24189	37505	1.75	1.0E-104	BE731978.1	EST_HUMAN	601566806F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841681 5'
11590	24189	37506	1.75	1.0E-104	BE731978.1	EST_HUMAN	601566808F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841681 5'
11791	24381	37712	1.42	1.0E-104	11434729	NT	Homo sapiens ribosomal protein S8 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
12702	24982		2.38	1.0E-104	BE393892.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3955976 5'
272	15514	25722	11.13	1.0E-105	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistant) (APP), mRNA
416	12827	25440	8.99	1.0E-105	4505150	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
580	13360	25987	1.92	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
580	13360	25988	1.92	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1814	14554	27268	0.91	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1919	14656	27386	1.93	1.0E-105	D50818.1	NT	Human mRNA for KIAA0128 gene, partial cds
2186	14915	27849	1.29	1.0E-105	AA318360.1	EST_HUMAN	EST20609 Spleen 1 Homo sapiens cDNA 5' end similar to autoimmunity antigen Ku, p70/p80 subunit
2322	15047		1.44	1.0E-105	BE891788.1	EST_HUMAN	601434491F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919511 5'
3006	15772		2.89	1.0E-105	AL228041.1	NT	Homo sapiens 959 kb config between AML1 and CBR1 on chromosome 21q22; segment 1/3
3346	16105	28759	0.88	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
3346	16105	28760	0.88	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4077	16821	29447	2.07	1.0E-105	AW901688.1	EST_HUMAN	EST373781 IMAGE resequences, MAGG Homo sapiens cDNA
4694	17428	30058	0.74	1.0E-105	BE868881.1	EST_HUMAN	601446823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4694	17428	30059	0.74	1.0E-105	BE868881.1	EST_HUMAN	601446823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4896	17613		4.24	1.0E-105	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
5043	17762	30377	1.16	1.0E-105	AB018339.1	NT	Homo sapiens mRNA for KIAA0780 protein, partial cds
5091	17810	30426	0.94	1.0E-105	AW968015.1	EST_HUMAN	EST378088 IMAGE resequences, MAGI Homo sapiens cDNA
5247	18053	30681	0.98	1.0E-105	AF016704.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 2
5312	18116		1.07	1.0E-105	11420134	NT	Homo sapiens Ref-1-derived POU-domain factor-1 (RPF-1), mRNA
6804	19465	32485	2.16	1.0E-105	BF314302.1	EST_HUMAN	601801028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
6804	19465	32486	2.16	1.0E-105	BF314302.1	EST_HUMAN	601801028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
6885	17981	30515	3.65	1.0E-105	11419198	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6885	17981	30516	3.95	1.0E-105	11419198	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6927	19063	32709	0.83	1.0E-105	AW951634.1	EST_HUMAN	EST363689 IMAGE resequences, MAGB Homo sapiens cDNA
7184	19870	32944	0.59	1.0E-105	BE902616.1	EST_HUMAN	601877279F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960019 5'
7722	20388	33500	0.65	1.0E-105	6806894	NT	Homo sapiens pleiotrophin 4 (PKP4), mRNA
7758	20454	33579	0.97	1.0E-105	X12556.1	NT	Human mRNA for ddb proto-oncogene

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7927	20622	33750	6.55	1.0E-105	T05087.1	EST_HUMAN	EST02875 Fetal brain, Striatum (cat#938206) Homo sapiens cDNA clone HFBGR32
8297	20991	34129	1.41	1.0E-105	AW007194.1	EST_HUMAN	ws50c10.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2500826 3' similar to
8826	21518	34683	0.98	1.0E-105	AW840817.1	EST_HUMAN	SW-ACSA_PENCH P36333 ACETYL-COENZYME A SYNTHETASE ;
8948	21639	34786	2.82	1.0E-105	AW016879.1	EST_HUMAN	RC1-CN0008-070100-011-e05 CN0008 Homo sapiens cDNA
9103	21791	34954	0.9	1.0E-105	AW882372.1	EST_HUMAN	UIH-B10p-ab4-b-12-0-UI.s1 NCI_CGAP Sub2 Homo sapiens cDNA clone IMAGE:2711782 3'
9103	21791	34955	0.9	1.0E-105	AW882372.1	EST_HUMAN	QV2-OT0062-140300-063-009 OT0062 Homo sapiens cDNA
9487	22077	35247	0.98	1.0E-105	BE867783.1	EST_HUMAN	QV2-OT0062-140300-063-009 OT0062 Homo sapiens cDNA
9487	22077	35248	0.98	1.0E-105	BE867783.1	EST_HUMAN	601443755F1 NIH_MGC 85 Homo sapiens cDNA clone IMAGE:3847884 5'
10850	23531	36776	5.73	1.0E-105	AF294822.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
11195	23860	37146	1.59	1.0E-105	D63548.1	NT	Homo sapiens COL4A6 gene for $\alpha 1(\text{IV})$ collagen, exon 31
11250	23912	37204	2.38	1.0E-105	77058936	NT	Homo sapiens Ran binding protein 11 (LOC51194), mRNA
11580	24178	37494	2.58	1.0E-105	AW027554.1	EST_HUMAN	hw7407.x1 Soares_thymus_NHFTb Homo sapiens cDNA clone IMAGE:2535301 3' similar to TR:P87892
11675	24270	37592	1.43	1.0E-105	BF430921.1	EST_HUMAN	P87892 PROTEASE ;
11831	24415	37753	1.73	1.0E-105	AB004924.1	NT	7o18c10.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:3574291 3' similar to TR:P97680 P97680
11831	24415	37754	1.73	1.0E-105	AB004924.1	NT	RIN1 ;
147	12862		1.39	1.0E-106	AW503208.1	EST_HUMAN	Homo sapiens gene for Smad 3, exon 2 and 3
200	13013	25654	1.79	1.0E-106	AI585065.1	EST_HUMAN	Homo sapiens gene for Smad 3, exon 2 and 3
528	13313	25947	2.68	1.0E-106	AW985556.1	EST_HUMAN	UI-HF-BNO-akt-g-07-0-UI.L1 NIH_MGC 50 Homo sapiens cDNA clone IMAGE:3078348 5'
591	13371	26000	0.76	1.0E-106	J00146.1	NT	EST377628 MAGE resequences, MAGI Homo sapiens cDNA
592	13371	26000	2.06	1.0E-106	J00146.1	NT	Human dihydrofolate reductase pseudogene (psl-hd1)
1515	14262	26948	1.33	1.0E-106	AF145712.1	NT	Human dihydrofolate reductase pseudogene (psl-hd1)
1697	14440	27138	3.48	1.0E-106	U48724.1	NT	Homo sapiens soluble neuropilin-1 mRNA, complete cds
1798	14536	27245	4.71	1.0E-106	AA527448.1	EST_HUMAN	Homo sapiens epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
1798	14536	27245	4.71	1.0E-106	AA527448.1	EST_HUMAN	ng41cd05.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element
2118	14848	27578	2.31	1.0E-106	BE144286.1	EST_HUMAN	LTR3 repetitive element ;
2315	15040	27778	2.89	1.0E-106	4504184	NT	LTR3 repetitive element ;
2810	15322	28084	1.82	1.0E-106	BE260201.1	EST_HUMAN	MRO-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA
2761	15486	28210	3.24	1.0E-106	AI276526.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2828	14159	28842	1.91	1.0E-106	4504184	NT	601149783F1 NIH_MGC 19 Homo sapiens cDNA clone IMAGE:3502461 5'
							q176h10.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1878307 3'
							Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2828	14159	28843	1.91	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2842	15707	28357	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
2942	15707	28358	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
3178	15839	28598	2.18	1.0E-106	8822965	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3178	15839	28599	2.18	1.0E-106	8822965	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3367	16128	28784	0.81	1.0E-106	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
3434	16190	28838	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3434	16190	28839	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4017	16763	29391	7.95	1.0E-106	AW974650.1	EST_HUMAN	EST388875 MAGC resequences, MAGN Homo sapiens cDNA
4017	16763	29392	7.95	1.0E-106	AW974650.1	EST_HUMAN	EST388875 MAGC resequences, MAGN Homo sapiens cDNA
4035	16780	29410	1.05	1.0E-106	5729729	NT	Homo sapiens APIB-like 1 (APIB1), mRNA
4582	17297	29924	1.4	1.0E-106	BE144286.1	EST_HUMAN	MFR0-HT0185-140200-008-d10 HT0185 Homo sapiens cDNA
5135	17853	30469	1.09	1.0E-106	AL050253.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMPs, Tolloid, Sushi repeat proteins
5135	17853	30470	1.09	1.0E-106	AL050253.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMPs, Tolloid, Sushi repeat proteins
5285	18090	30750	2.61	1.0E-106	AA781155.1	EST_HUMAN	ap24b09.s1 Soares testis_NHT Homo sapiens cDNA clone 1391225 3' similar to gb:U12433 PROTEIN
5764	18555	31480	0.58	1.0E-106	AU130113.1	EST_HUMAN	PHPS1-2 (HUMAN);
5764	18555	31481	0.58	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5816	18605	31533	0.58	1.0E-106	AA434168.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5904	18689	31637	1.3	1.0E-106	AU143428.1	EST_HUMAN	zw28d12.s1 Soares ovary tumor NBHOT Homo sapiens cDNA clone IMAGE:770615 3'
5904	18689	31638	1.3	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6011	18792	31755	4.89	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6303	18892	31860	0.77	1.0E-106	BE676574.1	EST_HUMAN	602154012F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295067 5'
6325	19095	32083	17.66	1.0E-106	BE677112.1	EST_HUMAN	601439870F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924841 5'
6325	19095	32084	17.66	1.0E-106	11545913	NT	Homo sapiens xylotransferase II (XT2), mRNA
7271	19855	33031	5.18	1.0E-106	AA663779.1	EST_HUMAN	Homo sapiens xylotransferase II (XT2), mRNA
7324	20007	33084	5.33	1.0E-106	11429817	NT	ae74b07.s1 Stratiotes schizobrain S11 Homo sapiens cDNA clone IMAGE:969732 3' similar to gb:U65873 KINESIN HEAVY CHAIN (HUMAN);
7402	20080	33161	1.21	1.0E-106	BE292722.1	EST_HUMAN	Homo sapiens XPMC2 protein (LOC57109), mRNA
7511	20182	33275	9.29	1.0E-106	11425503	NT	601105736F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2888345 5'
7511	20182	33276	9.29	1.0E-106	11425503	NT	Homo sapiens scoring neitin 11 (SNX11), mRNA
7714	20378	33491	0.87	1.0E-106	AU118850.1	EST_HUMAN	Homo sapiens scoring neitin 11 (SNX11), mRNA
							AU118850 HEMBA1 Homo sapiens cDNA clone HEMBA1000129 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7884	20579	33707	6.44	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
7884	20579	33708	6.44	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8074	20768	33897	1.38	1.0E-106	AI523086.1	EST_HUMAN	ar08a07.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2127732 3' similar to gb:X06233
8527	21219	34381	0.47	1.0E-106	BE387950.1	EST_HUMAN	CALGRANULIN B (HUMAN);
8527	21219	34362	0.47	1.0E-106	BE387950.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
8607	21269	34443	3.64	1.0E-106	AI654123.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
8950	21641	34788	0.58	1.0E-106	AW838831.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
9045	21735	34889	3.28	1.0E-106	AA825307.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
9045	21735	34890	3.28	1.0E-106	AA825307.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
9186	21856	35021	1.28	1.0E-106	AI750447.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
9329	21996	35169	1.8	1.0E-106	AI479569.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
9329	21996	35170	1.8	1.0E-106	AI479569.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
9602	22551	35748	1.19	1.0E-106	BE389234.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
9884	22632	35841	1.09	1.0E-106	BF027310.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
9884	22632	35842	1.09	1.0E-106	BF027310.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
10141	22769	36003	6.22	1.0E-106	AA604417.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
10141	22769	36004	6.22	1.0E-106	AA604417.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
10185	22833	36047	1.6	1.0E-106	AW363289.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
10358	23005	36222	0.53	1.0E-106	AL038886.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
10479	23125	36354	2.81	1.0E-106	AL163202.2	NT	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
10812	23495	36730	7.1	1.0E-106	BF032755.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
10812	23495	36731	7.1	1.0E-106	BF032755.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
10885	23668	36925	2.22	1.0E-106	J05200.1	NT	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
10885	23668	36926	2.22	1.0E-106	J05200.1	NT	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
11384	23981	37292	1.91	1.0E-106	BE257385.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
11532	24132	37436	1.35	1.0E-106	BE010882.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
11532	24132	37437	1.35	1.0E-106	BE010882.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
11981	25104	31088	6.77	1.0E-106	AW410405.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'
12193	24694	31088	3.32	1.0E-106	BE689488.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604463 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12193	24664	31069	3.32	1.0E-106	BE894498.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
12408	24791		4.6	1.0E-106	BE895905.1	EST_HUMAN	RC1-CT0249-090900-024-d05 CT0249 Homo sapiens cDNA
228	13040		4.42	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
258	13066		1.28	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
607	13385		4.03	1.0E-107	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
616	13394	28028	1.89	1.0E-107	AF155103.1	NT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
866	13635	28305	1.52	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
948	13714	26379	11.55	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1255	14004	26673	0.73	1.0E-107	AB032253.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1562	14309	26896	3.77	1.0E-107	BF087405.1	EST_HUMAN	QV2-HT0540-120900-358-d05 HT0540 Homo sapiens cDNA
1746	14488	27187	1.55	1.0E-107	AF136275.1	NT	Homo sapiens cathepsin Z precursor (CTS2) gene, exon 3
1832	14571	27283	0.99	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
1832	14571	27284	0.99	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2205	14933	27671	0.95	1.0E-107	U13729.1	NT	Human dipeptidyl peptidase IV (CD26) gene, exon 20
2362	15084	27822	1.45	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
2362	15084	27823	1.45	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
2535	15250	27891	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
2535	15250	27892	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
3007	15773	28421	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
3007	15773	28422	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
3086	15861	28502	2.63	1.0E-107	5902097	NT	Homo sapiens SMT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA
3806	16558	29190	5.14	1.0E-107	AF020671.1	NT	Homo sapiens myotubularin (MTM1) gene, exon 9
6537	18335	31242	0.86	1.0E-107	AW099038.1	EST_HUMAN	EST381115 IMAGE resequences, MAGK Homo sapiens cDNA
5775	18586	31495	3.2	1.0E-107	BE867469.1	EST_HUMAN	601442556F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846494 5'
6823	19484	32506	1.45	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
6823	19484	32507	1.45	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
7263	19947	33023	1.42	1.0E-107	AW503913.1	EST_HUMAN	UHF-BN0-alf-c-08-0-JL-r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078310 5'
7263	19947	33024	1.42	1.0E-107	AW503913.1	EST_HUMAN	UHF-BN0-alf-c-08-0-JL-r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078310 5'
7429	20108	33183	1.46	1.0E-107	AI765078.1	EST_HUMAN	wh56h04.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2384791 3'
7690	20354	33469	0.6	1.0E-107	AW410861.1	EST_HUMAN	fr08d11.x2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2064624 5'
9287	22041	35213	0.95	1.0E-107	AU122469.1	EST_HUMAN	AU122469 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10003	23297	36537	3.18	1.0E-107	A192850.1	EST_HUMAN	ig10406.x1 NCL CGAP_GLL1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICDI
10866	23548	36704	14.28	1.0E-107	L49141.1	NT	P05095 ALPHA-ACTININ 3, NON MUSCULAR;
10890	23560	36807	1.71	1.0E-107	BF688511.1	EST_HUMAN	Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
11293	23954	37252	6.66	1.0E-107	BE540550.1	EST_HUMAN	602123953F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281039 5'
11367	23178	36405	5.97	1.0E-107	11419701	NT	601066681F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452820 5'
11367	23178	36406	5.97	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11843	24427	37788	1.36	1.0E-107	4508970	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11843	24427	37789	1.36	1.0E-107	4508970	NT	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
12043	25328		5.86	1.0E-107	AA001415.1	EST_HUMAN	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
835	13702	26387	2.66	1.0E-108	BE296042.1	EST_HUMAN	z455001.s1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:381944 3' similar to contains THR.b1
1242	13991	26657	1.87	1.0E-108	Y18000.1	NT	THR repetitive element;
						NT	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532348 5'
						NT	Homo sapiens NF2 gene
2428	15149	27863	4.97	1.0E-108	BE206894.1	EST_HUMAN	bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2863899 3' similar to gb:X53777 60S
3344	16103	28755	0.71	1.0E-108	AF032897.1	NT	RIBOSOMAL PROTEIN L23 (HUMAN); gb:J05277 Mouse hexokinase mRNA, complete cds (MOUSE);
3344	16103	28756	0.71	1.0E-108	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
						NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4136	16878	28507	1.14	1.0E-108	AW664438.1	EST_HUMAN	h122a11.x1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2872060 3' similar to SW:3BP1_MOUSE
4489	17225	29853	2.18	1.0E-108	U72961.1	NT	P55194 SH3-BINDING PROTEIN 3BP-1;
4489	17225	29854	2.18	1.0E-108	U72961.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4752	17484	30113	1.74	1.0E-108	7881979	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4896	17623	30241	2.8	1.0E-108	AJ008005.1	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5391	18191	30883	1.16	1.0E-108	AW394094.1	EST_HUMAN	Homo sapiens PSN1 gene, alternative transcript
5440	18239	30954	1.7	1.0E-108	BE869016.1	EST_HUMAN	RCO-HT0372-241199-031-c03 HT0372 Homo sapiens cDNA
5440	18239	30955	1.7	1.0E-108	BE869016.1	EST_HUMAN	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
5837	18628		0.99	1.0E-108	AF012623.1	NT	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
						NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20
6048	18628	31790	6.13	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete
6048	18628	31791	6.13	1.0E-108	AF264717.1	NT	cds
						NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6169	18946	31918	1.27	1.0E-108	AJ133269.1	NT	Homo sapiens caveolin-1/2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6265	18697	31650	0.92	1.0E-108	BF334851.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6521	19287	32290	0.63	1.0E-108	AF016706.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
6521	19287	32291	0.63	1.0E-108	AF016706.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
7067	19748	32811	5.82	1.0E-108	11431857	NT	Homo sapiens G protein-coupled receptor, family C, group 5, member B (GPCR5B), mRNA
7339	20020	33068	3.55	1.0E-108	4758333	NT	Homo sapiens delta-6 fatty acid desaturase (FADS6) mRNA
7377	20057	33137	1.16	1.0E-108	BE262607.1	EST_HUMAN	601113471F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354064 5'
7406	20082	33164	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4181037 5'
7406	20082	33165	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4181037 5'
7963	20658	33838	1.68	1.0E-108	AF083500.1	NT	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8014	20709	33830	0.48	1.0E-108	AW408694.1	EST_HUMAN	UIHF-BM0-ads-e-12-UJ1r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8014	20709	33830	0.48	1.0E-108	AW408694.1	EST_HUMAN	UIHF-BM0-ads-e-12-UJ1r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8945	21638	34781	0.75	1.0E-108	AF203977.1	NT	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds
8984	21674	34823	0.54	1.0E-108	N44974.1	EST_HUMAN	Y95h10.r1 Soares melanocyte 2Nblm Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR.A45773
10595	20368	33481	1.73	1.0E-108	BE35227.1	EST_HUMAN	A45773 leish protein, long form - fruit fly
10731	17911	30597	1.98	1.0E-108	Y12490.1	NT	601058789F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3445361 5'
10998	23671	36928	1.39	1.0E-108	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11239	23902	37191	3.82	1.0E-108	AW966185.1	EST_HUMAN	EST378288 MAGE resequenced, MAGI Homo sapiens cDNA
11294	23955	37253	2.2	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11294	23955	37254	2.2	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11343	24033	37359	1.67	1.0E-108	11441465	NT	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
11405	24054	37359	1.68	1.0E-108	D63539.1	NT	Homo sapiens COL4A6 gene for $\alpha 1(V)$ collagen, exon 23
12204	24671	31072	2.41	1.0E-108	AK024447.1	NT	Homo sapiens mRNA for FLJ00337 protein, partial cds
12583	24906	25488	8.32	1.0E-108	BF346356.1	EST_HUMAN	602018571F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4154287 5'
41	12869	25488	0.87	1.0E-109	AW803116.1	EST_HUMAN	IL2-UM0077-280400-079-D08 UM0077 Homo sapiens cDNA
62	12890	25523	0.97	1.0E-109	D86974.1	NT	Human mRNA for KIAA0220 gene, partial cds
220	13031	25667	1.59	1.0E-109	11438391	NT	Homo sapiens reticulocabin 1, EF-hand calcium binding domain (RCN1), mRNA
454	13240	25878	5.69	1.0E-109	4507712	NT	Homo sapiens tetrahydropeptide repeat domain 2 (TTC2) mRNA
594	13364	25992	26.8	1.0E-108	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
594	13364	25993	26.8	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0989 protein, partial cds
1180	13933	26598	10.97	1.0E-109	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1181	13633	26568	4	1.0E-109	M26699.1	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1) mRNA, complete cds
1533	14280	26967	3.31	1.0E-109	BE263673.1	EST_HUMAN	601186822F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
1533	14280	26968	3.31	1.0E-109	BE263673.1	EST_HUMAN	601186822F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
1887	14605	27315	3.3	1.0E-109	D13643.2	NT	Homo sapiens mRNA for KIAA0018 protein, partial cds
2237	14665	27705	1.78	1.0E-109	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2248	14976	27714	1.89	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
2628	15340	28084	3.98	1.0E-109	A1022326.1	EST_HUMAN	ow95a01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 O02197 CIRCULATING CATHODIC ANTIGEN. ;
2628	15340	28085	3.98	1.0E-109	A1022326.1	EST_HUMAN	ow95a01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 O02197 CIRCULATING CATHODIC ANTIGEN. ;
2629	15341	28086	2.07	1.0E-109	4504206	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCY1A1) mRNA
3054	15820	28464	2.22	1.0E-109	N85190.1	EST_HUMAN	J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN ZNF43
3383	16142	28799	3.14	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-150-F10 NN0009 Homo sapiens cDNA
3383	16142	28800	3.14	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-150-F10 NN0009 Homo sapiens cDNA
3508	16264	28918	1.21	1.0E-109	AF240698.1	NT	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3548	16303	28953	0.9	1.0E-109	M37928.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3823	16575	28954	0.9	1.0E-109	M37928.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3974	18723	29357	2.59	1.0E-109	BE146144.1	EST_HUMAN	MFO-HT0209-110400-108-a04 HT0209 Homo sapiens cDNA
3974	18723	29358	1.42	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0609 protein, partial cds
4127	18869	29497	3.88	1.0E-109	A1655417.1	EST_HUMAN	Homo sapiens mRNA for KIAA0609 protein, partial cds
4141	18883	29512	1.02	1.0E-109	AA962274.1	EST_HUMAN	ts98a06.x1 NC1_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP:F53A2.8
4141	18883	29513	1.02	1.0E-109	AA962274.1	EST_HUMAN	CE16100 ;
4371	17109	29744	2.48	1.0E-109	4504206	EST_HUMAN	nu83c12.s1 NC1_CGAP_P122 Homo sapiens cDNA clone IMAGE:1218282 3' similar to SW:GTT2_HUMAN
4561	17286	29823	1.69	1.0E-109	7862083	NT	P30712 GLUTATHIONE S-TRANSFERASE THETA 2 ;
4867	17595	30218	1.27	1.0E-109	R15400.1	EST_HUMAN	nu83c12.s1 NC1_CGAP_P122 Homo sapiens cDNA clone IMAGE:1218282 3' similar to SW:GTT2_HUMAN
4892	17715	30320	1.39	1.0E-109	BE263673.1	EST_HUMAN	Homo sapiens guanylate cyclase activator 1A (retina) (GUCY1A1) mRNA
4892	17715	30321	1.39	1.0E-109	BE263673.1	EST_HUMAN	ye48a06.l1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:53057 5'
5167	17676	30534	0.81	1.0E-109	AU137282.1	EST_HUMAN	601186822F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
5179	17988	30503	1.06	1.0E-109	BF673718.1	EST_HUMAN	601186822F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
							AU137282 PLACE1 Homo sapiens cDNA clone PLACE1006159 5'
							602136446F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4272922 6'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5230	18036	30662	3.09	1.0E-109	5174622	NT	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
5520	18318		1.11	1.0E-109	BE178356.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
5838	25078	31560	0.84	1.0E-109	BF378688.1	EST_HUMAN	CM1-UT0038-060900-390-h07 UT0038 Homo sapiens cDNA
5907	18318		1.6	1.0E-109	BE178356.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
7140	19827	32896	0.97	1.0E-109	AB046811.1	NT	Homo sapiens mRNA for KIAA1561 protein, partial cds
7464	20138	33230	3.99	1.0E-109	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
7466	20140	33232	5.28	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7468	20140	33233	5.28	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7674	20338	33451	0.67	1.0E-109	BE263267.1	EST_HUMAN	601145017F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160229 5'
8073	20767	33806	1.48	1.0E-109	AL049784.1	NT	Novel human gene mapping to chromosome 13
8183	20877	34014	0.99	1.0E-109	AW749130.1	EST_HUMAN	PMO-BT0340-091299-002-e05 BT0340 Homo sapiens cDNA
8555	21247		2.77	1.0E-109	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
8633	21325	34466	8.42	1.0E-109	BE787640.1	EST_HUMAN	601479417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8633	21325	34467	8.42	1.0E-109	BE787640.1	EST_HUMAN	601479417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8876	21567	34711	0.56	1.0E-109	BE145672.1	EST_HUMAN	IL0-HT0205-071199-142-g01 HT0205 Homo sapiens cDNA
9137	21825	34990	1.91	1.0E-109	HB4860.1	EST_HUMAN	yes00p08.1 Soares retina N2b5-R Homo sapiens cDNA clone IMAGE:222110 5' similar to SP-A53491
9250	21929	35101	0.63	1.0E-109	BE397068.1	EST_HUMAN	A53491 BUMETANIDE-SENSITIVE NA-K-G1 COTRANSPORTER - SPINY
9250	21929	35102	0.63	1.0E-109	BE397068.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
9384	22046	35218	2.64	1.0E-109	FO6604.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
10073	23364	36606	1.71	1.0E-109	BE540909.1	EST_HUMAN	HSC1EC121 normalized infant brain cDNA Homo sapiens cDNA clone c-1ec12
10673	23364	36607	1.71	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
10710	23399	36638	15.79	1.0E-109	BF694831.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
10888	23568	36818	1.55	1.0E-109		NT	602080724F2 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245341 5'
10888	23568	36819	1.55	1.0E-109		NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
11069	23739	37013	1.8	1.0E-109	AU121370.1	EST_HUMAN	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
11342	24032	37336	2.72	1.0E-109	4502838	NT	AU121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002680 5'
11383	23680	37281	11.6	1.0E-109	W16610.1	EST_HUMAN	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
11685	24280	37602	1.46	1.0E-109	11418618	NT	zb08b12.1 Soares fetal lung_NHL19W Homo sapiens cDNA clone IMAGE:301439 5' similar to
11848	24432	37773	1.27	1.0E-109	BF339540.1	EST_HUMAN	PIR:S43969 S43969 p54-beta stress-activated protein kinases - rat;
11848	24432	37774	1.27	1.0E-109	BF339540.1	EST_HUMAN	Homo sapiens single-minded (Drosophila) homolog 1 (SIM1), mRNA
12112	14976	27714	2.1	1.0E-109	Y17123.1	NT	602039003F1 NCI_OGAP_Bm64 Homo sapiens cDNA clone IMAGE:4186753 5'
12328	14976	27714	2.73	1.0E-109	Y17123.1	NT	602039003F1 NCI_OGAP_Bm64 Homo sapiens cDNA clone IMAGE:4186753 5'
							Homo sapiens SNF5/INI1 gene, exon 6
							Homo sapiens SNF5/INI1 gene, exon 6

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12443	24813	31047	2.08	1.0E-109	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
3	12831	25444	1.65	1.0E-110	7549804	NT	Homo sapiens delodinesa, lodothyronine, type II (DIO2), transcript variant 2, mRNA
36	12864	25482	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
36	12864	25483	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
79	12905	25543	0.7	1.0E-110	C04498.1	EST_HUMAN	C04498 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHIC3467
107	12831	25444	2.28	1.0E-110	7549804	NT	Homo sapiens delodinesa, lodothyronine, type II (DIO2), transcript variant 2, mRNA
514	13298	25930	1.54	1.0E-110	U84550.1	NT	Human dystrobrevin (DTN) gene, exon 20
1157	13912	26575	0.8	1.0E-110	5031620	NT	Homo sapiens calcitonin receptor-like (CALCRL) mRNA
1256	14005	26674	0.8	1.0E-110	AB032263.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1914	14651	27361	1.19	1.0E-110	BE379477.1	EST_HUMAN	601237545F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609683 5'
2051	14784		1.6	1.0E-110	BF508896.1	EST_HUMAN	U1H-B14-ss-b-05-0-J1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
2845	15313		1	1.0E-110	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
3189	15952	28603	1.49	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
3189	15952	28604	1.49	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4031	16776	29407	1.09	1.0E-110	BE018556.1	EST_HUMAN	bb82a06.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048848 5' similar to TR:O60312 O60312 KIAA0506 PROTEIN;
4591	17326	29951	2.14	1.0E-110	AI017213.1	EST_HUMAN	cu32b10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627963 3' similar to
4908	17341	29972	3.9	1.0E-110	AU117812.1	EST_HUMAN	SW.N121_RAT_P62591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121;
4916	17844		2.7	1.0E-110	7682441	NT	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
5212	18020	30642	2.63	1.0E-110	BE298406.1	EST_HUMAN	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
5639	18434	31347	0.8	1.0E-110	BE621069.1	EST_HUMAN	601118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3026538 5'
5656	18451	31364	8.61	1.0E-110	11419323	NT	601483877F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895795 5'
5656	18451	31366	8.61	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6617	25096	32396	8.06	1.0E-110	M55112.1	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
7002	19694	32746	0.8	1.0E-110	U08888.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 7
7002	19694	32747	0.8	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7224	19909	32983	0.74	1.0E-110	AI660289.1	EST_HUMAN	Human GS2 gene, exon 2
7325	20008	33085	6.9	1.0E-110	AV714276.1	EST_HUMAN	tt12a08.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN
7325	20008	33086	6.9	1.0E-110	AV714276.1	EST_HUMAN	P50549 ETS TRANSLOCATION VARIANT 1;
7355	20036	33114	3.21	1.0E-110	AB020675.1	NT	AV714276 DCB Homo sapiens cDNA clone DCBDCGE01 5'
7469	20143	33235	0.83	1.0E-110	AU137923.1	EST_HUMAN	AV714276 DCB Homo sapiens cDNA clone DCBDCGE01 5'
							Homo sapiens mRNA for KIAA0868 protein, partial cds
							AU137923 PLACE1 Homo sapiens cDNA clone PLACE1007511 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9234	21013	35087	7.88	1.0E-110	BE302594.1	EST_HUMAN	bs68f01.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905561 5' similar to TR:O77258 O77258
9476	22129	35308	2.39	1.0E-110	AW836394.1	EST_HUMAN	EG:114D9.2 PROTEIN.1
10221	22869	36081	3.45	1.0E-110	11432732	NT	QV2-LT0053-020400-119-e04 LT0053 Homo sapiens cDNA
10848	23339	36578	3.64	1.0E-110	Y12337.1	NT	Homo sapiens galactokinase 2 (GALK2), mRNA
10887	23567	36816	3.75	1.0E-110	BE734357.1	EST_HUMAN	H. sapiens mRNA for myotonic dystrophy protein kinase like protein
10887	23567	36817	3.75	1.0E-110	BE734357.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
							601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
							zvd7g02.f1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781268 5' similar to TR:G1145816
11420	23187	36418	2.45	1.0E-110	AA446529.1	EST_HUMAN	G1145816 FKBP54
11939	24498		4.54	1.0E-110	BE897218.1	EST_HUMAN	601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924548 5'
12081	24576		11.71	1.0E-110	AW062258.1	EST_HUMAN	IL0-BT0163-040899-094-g10 BT0163 Homo sapiens cDNA
12290	24720		1.44	1.0E-110	AB011399.1	NT	Homo sapiens gene for AF-8, complete cds
12346	24753		1.35	1.0E-110	A1127761.1	EST_HUMAN	qc31c12.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1711222 3'
12429	25339		3.25	1.0E-110	BF364546.1	EST_HUMAN	PK3-NIN1082-140800-006-f12 NIN1082 Homo sapiens cDNA
12701	14794		1.45	1.0E-110	BF508896.1	EST_HUMAN	UI-H-B14-eps-b-05-0-UI.s1 NCI CGAP Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
170	12983		10.84	1.0E-111	U43701.1	NT	Human ribosomal protein L23a mRNA, complete cds
191	13004	25845	1.05	1.0E-111	4759807	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
718	13492		2.38	1.0E-111	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862088 5'
726	13500	26154	5.13	1.0E-111	8093092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
908	13673	26338	3.82	1.0E-111	M25142.1	NT	Human cardiac alpha-myosin heavy chain (MYH6) gene, exons 32 to 34
1624	14371	27060	1.43	1.0E-111	7682177	NT	Homo sapiens KIAA0555 gene product (KIAA0555), mRNA
2234	14982	27701	1.02	1.0E-111	AF036126.1	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
4150	16892	29522	1.08	1.0E-111	7661569	NT	Homo sapiens collagen type IX alpha 1 chain (COL9A1) gene, exons 29, 30, 31, and 32
4295	17034	29662	4.38	1.0E-111	K02268.1	NT	Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA
4991	17425	30057	8.36	1.0E-111	4505778	NT	Human orkaphalin B (erkB) gene, exon 4 and 3' flank and complete cds
5544	18341	31249	1.09	1.0E-111	BE867809.1	EST_HUMAN	Homo sapiens phosphotyrosine kinase, alpha 1 (muscle) (PHKA1), mRNA
							601443690F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:3847655 5'
							qp06g12.x1 NCI CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1917674 3' similar to gb:M28693 RAS-
							RELATED PROTEIN RAL-A (HUMAN);
5942	18724	31683	1.98	1.0E-111	A1344679.1	EST_HUMAN	DKFZP434C1815_f1_434 (synonym: Htes3) Homo sapiens cDNA clone DKFZP434C1815 5'
6580	19343	32357	1.16	1.0E-111	AL040762.1	EST_HUMAN	UI-H-BW03-ell-d-03-0-UI.s1 NCI CGAP Sub8 Homo sapiens cDNA clone IMAGE:2729525 3'
6709	19624	32668	1.06	1.0E-111	AW294648.1	EST_HUMAN	IL2-NT0101-280700-114-E03 NT0101 Homo sapiens cDNA
7347	20028	33104	2.99	1.0E-111	BF366228.1	EST_HUMAN	wf88d01.x1 NCI CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398465 3' similar to gb:J04813
7433	20110	33198	0.62	1.0E-111	A1781228.1	EST_HUMAN	CYTOTOCHROME P450 IIIA5 (HUMAN);

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7514	20185	33279	0.6	1.0E-111	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
7993	20688	33815	0.73	1.0E-111	AA278968.1	EST_HUMAN	z579g03.t1 NCL_CGAP_GC81 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
7993	20688	33816	0.73	1.0E-111	AA278968.1	EST_HUMAN	G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR. ;
8088	20782	33912	0.62	1.0E-111	11431896	NT	z579g03.t1 NCL_CGAP_GC81 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
8139	20833	33967	3.28	1.0E-111	U68033.1	NT	G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR. ;
8579	21271	34409	0.79	1.0E-111	11420516	NT	z579g03.t1 NCL_CGAP_GC81 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
8674	21366	34513	0.73	1.0E-111	AK024453.1	NT	G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR. ;
8707	21399		1.57	1.0E-111	AF177987.1	NT	Homo sapiens protein x 0001 (LOC61185), mRNA
8708	21400		8.65	1.0E-111	BF214902.1	EST_HUMAN	Human beta4-integrin (ITGB4) gene, exon 13
8782	21474	34620	12.9	1.0E-111	X17033.1	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
8782	21474	34621	12.9	1.0E-111	X17033.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
8886	21676	34825	2.8	1.0E-111	AF091396.1	NT	Homo sapiens cone sodium-calcium potassium exchanger splice variant (NCKX) mRNA, complete cds
9217	21896	35066	0.49	1.0E-111	BF333210.1	EST_HUMAN	601847132F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4078303 5'
10052	22700	35917	3.21	1.0E-111	AA604180.1	EST_HUMAN	Human mRNA for integrin alpha-2 subunit
10080	22728		2.4	1.0E-111	D10083.1	NT	Human mRNA for integrin alpha-2 subunit
10172	22820	39038	6.24	1.0E-111	AA131248.1	EST_HUMAN	Homo sapiens Trio isoform mRNA, complete cds
10973	23849	36902	4.25	1.0E-111	U68159.1	NT	QV2-BT0817-270900-398-e06 BT0817 Homo sapiens cDNA
11465	24058	37376	2.74	1.0E-111	AI751071.1	EST_HUMAN	ae58g02.s1 NCL_CGAP_GC81 Homo sapiens cDNA clone IMAGE:825170 3' similar to gb:U09235
11897	24464	37802	3.72	1.0E-111	11417901	NT	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);
12424	24800	31040	1.51	1.0E-111	AV708482.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
12672	17914	30599	1.56	1.0E-111	AB035353.1	NT	28101.1 Scores_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
594	13372	26001	1.29	1.0E-112	4501854	NT	Human thrombopoietin receptor (MPL) gene, exons 1,2,3,4,5 and 6
596	13374	26003	12.55	1.0E-112	U29103.1	NT	cn07a11.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn07a11 random
596	13374	26004	12.55	1.0E-112	U29103.1	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MINT), mRNA
617	13395	26029	1.86	1.0E-112	BF509039.1	EST_HUMAN	AV708482 ADC Homo sapiens cDNA clone ADCA0508 5'
617	13396	26030	1.86	1.0E-112	BF509039.1	EST_HUMAN	Homo sapiens mRNA for neurokin A protein, complete cds
981	13746	26408	8.84	1.0E-112	AF157623.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
1040	13800	26458	2.2	1.0E-112	P52742	SWISSPROT	Homo sapiens acute regulatory protein (SIAR) gene, exon 5
							Human steroidogenic acute regulatory protein (SIAR) gene, exon 5
							UI-H-BI4-act-g-04-0-J1.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
							UI-H-BI4-act-g-04-0-J1.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
							Homo sapiens HTA serine protease (PRSS11) gene, complete cds
							ZINC FINGER PROTEIN 135

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1679	14423	27117	4.39	1.0E-112	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
1679	14423	27118	4.39	1.0E-112	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2194	14923	27657	1.37	1.0E-112	AJ769325.1	EST_HUMAN	wi90f06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400811 3'
2512	16229	27969	1.1	1.0E-112	BE86859.1	EST_HUMAN	601442874F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846858 5'
3076	15842		1.15	1.0E-112	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3355	16115	28770	0.7	1.0E-112	AB28611.1	EST_HUMAN	wk45b12.x1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:2418336 3' similar to gb:MB1650_mae1
3684	16614	29253	0.74	1.0E-112	BE076073.1	EST_HUMAN	SEMN0GELIN 1 PROTEIN PRECURSOR (HUMAN);
4565	17300	29827	1.39	1.0E-112	4504116	NT	MR2-BT0590-090300-113-109 BT0590 Homo sapiens cDNA
4704	17437	30068	4.9	1.0E-112	AB037832.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4704	17437	30069	4.9	1.0E-112	AB037832.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5281	18378	31291	40.71	1.0E-112	AF149773.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
5285	18766	31730	1.04	1.0E-112	BE741666.1	EST_HUMAN	Homo sapiens mRNA for KIAA1411 protein, partial cds
6155	18932	31899	1.43	1.0E-112	BF672815.1	EST_HUMAN	Y935407.1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:273229 5'
6369	19138	32134	0.68	1.0E-112	BE73103.1	EST_HUMAN	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6539	19304	32308	0.71	1.0E-112	BE73103.1	EST_HUMAN	60159471F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948557 5'
6539	19304	32309	0.71	1.0E-112	BE73103.1	EST_HUMAN	802152849F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293420 5'
6741	19575	32607	1.13	1.0E-112	BF574235.1	EST_HUMAN	801142765F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
7236	19921	32995	1.87	1.0E-112	11416777	NT	801142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
7236	19921	32996	1.87	1.0E-112	11416777	NT	802131405F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5'
7729	25120	33507	0.56	1.0E-112	BF213358.1	EST_HUMAN	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
8093	20787	33919	1.73	1.0E-112	AU118051.1	EST_HUMAN	801845089F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070302 5'
8856	21547	34694	2.09	1.0E-112	BE867635.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5'
8856	21547	34695	2.09	1.0E-112	BE867635.1	EST_HUMAN	801443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
9793	22444	35949	2.15	1.0E-112	BF111413.1	EST_HUMAN	801443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
10677	23368	36811	2.86	1.0E-112	AW863327.1	EST_HUMAN	730907.x1 Soares NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3523020 3' similar to
10866	23548	36796	3.37	1.0E-112	AJ249900.1	NT	TR:Q9VW35 Q9VW35 CG8743 PROTEIN ;
11040	23711	36981	1.92	1.0E-112	BE280479.1	EST_HUMAN	MR3-SN0009-100400-108-b12 SN0009 Homo sapiens cDNA
11109	23779	37053	1.59	1.0E-112	AJ792803.1	EST_HUMAN	Homo sapiens mRNA for secreted modular calcium-binding protein (smoc1 gene)
							601155323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139889 5'
							qk24c08.y6 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q84362 Q84362
							FUSED TOES ;

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11109	23779	37054	1.59	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y6 NCI_CGAP_Kd3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES:
11130	23806	37085	8.6	1.0E-112	AW377670.1	EST_HUMAN	PM0-CT0237-141099-001-102 CT0237 Homo sapiens cDNA
11810	24399	37734	1.92	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y6 NCI_CGAP_Kd3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES:
11810	24399	37736	1.92	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y6 NCI_CGAP_Kd3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES:
725	13499	26152	5.37	1.0E-113	AI365586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
725	13499	26153	5.37	1.0E-113	AI365586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
921	13688	26362	7.99	1.0E-113	M11985.1	NT	Human X-linked phosphoglycerate kinase gene, exon 8
1532	14278	26966	2.66	1.0E-113	AI365586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
1832	15524	27382	1.44	1.0E-113	AF240775.1	NT	Homo sapiens eIF4E-transporter mRNA, complete cds
2088	14820	27561	1.02	1.0E-113	BF616218.1	EST_HUMAN	UI-H-BW1-ant-f03-Q-U1.st NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3062876 3'
2456	15174	27913	26.34	1.0E-113	AJ006976.1	NT	Homo sapiens PLP gene
3127	15892	28536	1.92	1.0E-113	AJ223948.1	NT	Homo sapiens mRNA for putative RNA helicase, 3' end
4966	17691	30300	0.91	1.0E-113	D86608.1	NT	Homo sapiens gene for cholesteryloligolipin type-A receptor, complete cds
5008	17731	30335	2.16	1.0E-113	5453562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5008	17731	30336	2.16	1.0E-113	5453562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5165	25178	30909	2.97	1.0E-113	BE780858.1	EST_HUMAN	601469465F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872536 5'
5405	18205	30909	7.66	1.0E-113	AU127214.1	EST_HUMAN	AU127214 NT2RP2 Homo sapiens cDNA clone NT2RP2000807 5'
5832	18621	31554	4.17	1.0E-113	AU140291.1	EST_HUMAN	AU140291 PLACE2 Homo sapiens cDNA clone PLACE2000274 5'
5861	18648	31589	1.47	1.0E-113	AF016635.1	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
5979	18761	31725	2.62	1.0E-113	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 8 (GALNAC-T8) (GALNT8), mRNA
6064	18843	31806	0.68	1.0E-113	9861249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6064	18843	31807	0.68	1.0E-113	9861249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6224	18998	31974	0.8	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
6224	18998	31975	0.8	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7221	19906	32979	0.78	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5'
7221	19906	32980	0.78	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5'
7573	20242	33347	0.56	1.0E-113	AW958980.1	EST_HUMAN	EST371030 IMAGE resequences, IMAGE Homo sapiens cDNA
8780	21482	34629	0.46	1.0E-113	8922819	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9982	21682	34830	3.06	1.0E-113	BE382842.1	EST_HUMAN	601287709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
9982	21682	34831	3.06	1.0E-113	BE382842.1	EST_HUMAN	601287709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
9301	21988		0.93	1.0E-113	BE772967.1	EST_HUMAN	RC1-F10134-280600-021-d02 FT0134 Homo sapiens cDNA
9730	22381	35583	1.4	1.0E-113	11429367	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
9830	22481	35683	0.45	1.0E-113	M21535.1	NT	Human erg protein (ets-related gene) mRNA, complete cds
9950	22598	35802	0.81	1.0E-113		NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9950	22598	35803	0.81	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10514	23160	36386	0.61	1.0E-113	AW500517.1	EST_HUMAN	U1-HF-BN0-akj-b-10-0-J1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077322 5'
10515	23161	36387	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'
10515	23161	36388	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'
11067	23737	37011	1.83	1.0E-113	AW500519.1	EST_HUMAN	U1-HF-BN0-akj-b-12-0-J1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077326 5'
11076	23746	37019	2.84	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327 KIAA0584 PROTEIN;
11076	23746	37020	2.84	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327 KIAA0584 PROTEIN;
11181	18998	31974	1.39	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11181	18998	31975	1.39	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11227	23890	37177	2.81	1.0E-113	BE292968.1	EST_HUMAN	601105629F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988366 5'
11481	24082	37393	1.32	1.0E-113	AA580720.1	EST_HUMAN	nc80b03.r1 NCL CGAP_GC1 Homo sapiens cDNA clone IMAGE:797069 5' similar to SW:FEN1_HUMAN
11481	24082	37394	1.32	1.0E-113	AA580720.1	EST_HUMAN	P39748 FLAP ENDONUCLEASE-1; nc80b03.r1 NCL CGAP_GC1 Homo sapiens cDNA clone IMAGE:797069 5' similar to SW:FEN1_HUMAN
630	13409	26045	6.8	1.0E-114	T70551.1	EST_HUMAN	yd15c01.s1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:108288 3' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN); contains Alu repetitive element
1049	13808	26468	1.7	1.0E-114	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1290	14039	26712	5.09	1.0E-114	7657529	NT	Homo sapiens hypothetical tumor deletion region protein 1 (RTDR1), mRNA
1667	14413	27104	4.27	1.0E-114	6678073	NT	Homo sapiens nucleoporin-like protein 1 (NLP_1), mRNA
2807	12871	25491	1.28	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
2807	12871	25492	1.28	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3128	15893	26537	2.75	1.0E-114	X04086.1	NT	Human gene for catalase (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13
3169	15932	26581	1.02	1.0E-114	BF206374.1	EST_HUMAN	601869632F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100214 5'
3997	16745	29377	2.61	1.0E-114	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4358	17096	29731	0.72	1.0E-114	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5084	17783	30400	1.05	1.0E-114	BE275324.1	EST_HUMAN	801122173F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346099 5'
5315	18119	30775	1.26	1.0E-114	4506980	NT	Homo sapiens eema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (sempaphorin) 5A (SEMA5A) mRNA
5315	18119	30776	1.26	1.0E-114	4506980	NT	Homo sapiens eema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (sempaphorin) 5A (SEMA5A) mRNA
5508	18306	31207	0.97	1.0E-114	9257201	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), transcript variant 2, mRNA
6134	18912	31881	0.64	1.0E-114	Z20288.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 20
6898	17974	30531	0.62	1.0E-114	4759163	NT	Homo sapiens spero/osteonectin, cwcw and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
6977	19458		0.95	1.0E-114	AB041533.1	NT	Homo sapiens HCMOGT-1 mRNA for sperm antigen, complete cds
7139	19826	32894	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7139	19826	32895	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7182	19868	32941	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7182	19868	32942	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7792	20487	33610	2.62	1.0E-114	4557600	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
8067	20761	33889	1.92	1.0E-114	A1363139.1	EST_HUMAN	qy68406.x1 NCI CGAP Brm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8067	20761	33890	1.92	1.0E-114	A1363139.1	EST_HUMAN	qy68406.x1 NCI CGAP Brm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8602	21294	34437	3.81	1.0E-114	U63041.1	NT	Human neural cell adhesion molecule CD56 mRNA, complete cds
8665	21357	34505	6.93	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
8665	21357	34506	6.93	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
9081	21770	34933	0.49	1.0E-114	BF109832.1	EST_HUMAN	786g12.x1 Sources NSF_F8_QW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3526847 3' similar to
9314	21981		6.83	1.0E-114	AW327455.1	EST_HUMAN	TR:Q9JHN6 Q9JHN6 TRANSMEMBRANE PROTEIN 2 ;
9363	20433	33555	2.8	1.0E-114	AF077754.1	NT	dq03f05.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
9448	22125		1.03	1.0E-114	M13536.1	NT	Homo sapiens tyrosine kinase pp60c-src (SRC) gene, exon 12 and partial cds
10039	22687	35905	1.08	1.0E-114	BE870004.1	EST_HUMAN	Homo sapiens ceruloplasmin mRNA
10061	22709	35927	1.5	1.0E-114	AL163227.2	NT	601449752F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853500 5'
10439	23085	36313	0.7	1.0E-114	BE171984.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
							MF0-H10559-250200-002-407 HT0559 Homo sapiens cDNA
							ba73g12.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2906086 5' similar to gb:X17206 40S
							RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
10687	23378		3.15	1.0E-114	BE302696.1	EST_HUMAN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively
10789	23472	36714	1.71	1.0E-114	AF223391.1	NT	spliced

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10789	23472	36715	1.71	1.0E-114	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11145	23812	37094	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11145	23812	37095	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11796	24386	37719	1.7	1.0E-114	4758673	NT	Homo sapiens LIM HOX gene 2 (LHX2) mRNA
11834	24418	37759	1.32	1.0E-114	11526317	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (GLTCL1), mRNA
12334	25402		3.42	1.0E-114	11418041	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12577	24902	30998	4.93	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
12577	24902	30999	4.93	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
21	12849	25464	2.89	1.0E-115	4758111	NT	Homo sapiens HLA-B associated transcript-1 (D6S81E) mRNA
127	12942	25585	2.03	1.0E-115	4505638	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
131	12946		2.33	1.0E-115	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
286	13092	25733	2.23	1.0E-115	AW804759.1	EST_HUMAN	QV4-UM0094-300300-158-508 UM0094 Homo sapiens cDNA
523	13307	25939	0.99	1.0E-115	A1339206.1	EST_HUMAN	q06f01.x1 NCI CGAP GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:000536 000536
523	13307	25940	0.99	1.0E-115	A1339206.1	EST_HUMAN	TTF-1 INTERACTING PEPTIDE 5;
769	13541	26201	1.36	1.0E-115	5174702	NT	TTF-1 INTERACTING PEPTIDE 5;
769	13541	26202	1.36	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
771	13543	26204	40.4	1.0E-115	4503794	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1552	14288	26985	1.26	1.0E-115	AF229180.1	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1552	14298	26986	1.26	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1833	14572	27285	1.01	1.0E-115	U78027.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
2078	14810	27541	0.96	1.0E-115	AB007802.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2298	15023	27758	2.13	1.0E-115	AF231124.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
2855	16023		1.39	1.0E-115	AW804759.1	EST_HUMAN	Homo sapiens testican-1 mRNA, complete cds
3113	15878	28618	6.22	1.0E-115	AJ245922.1	NT	QV4-UM0094-300300-158-508 UM0094 Homo sapiens cDNA
3113	15878	28519	6.22	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3466	16221	28875	1.6	1.0E-115	AJ277892.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
4021	16767	29397	3.67	1.0E-115	AB002348.2	NT	Homo sapiens partial TTN gene for titin
4369	17107	29742	3.27	1.0E-115	6912659	NT	Homo sapiens partial TTN gene for titin
4403	17140	29768	3.6	1.0E-115	4758279	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4628	17363	29996	2.64	1.0E-115	AL098857.1	NT	Homo sapiens sirt2-like 3 (SIRT3), mRNA
							Homo sapiens EphA4 (EPHA4) mRNA
							Novel human mRNA from chromosome 1, which has similarities to BAT2 genes

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4628	17363	29997	2.64	1.0E-115	AL096957.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4848	17578	30201	3.51	1.0E-115	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
4848	17578	30202	3.51	1.0E-115	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
5263	18069	30698	1.62	1.0E-115	AW070335.1	EST_HUMAN	EST382418 IMAGE resequences, MAGK Homo sapiens cDNA
5338	18141	30802	0.78	1.0E-115	BF665367.1	EST_HUMAN	602118346F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276738 5'
5454	18253	31143	1.96	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5454	18253	31144	1.98	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5804	18400	31313	1.34	1.0E-115	AI928799.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb107807 DYNAMIN-1 (HUMAN);
5804	18400	31314	1.34	1.0E-115	AI928798.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb107807 DYNAMIN-1 (HUMAN);
6168	18945	31916	0.97	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
6168	18945	31917	0.97	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
6302	19075	32061	9.84	1.0E-115	11428038	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63436), mRNA
6434	19202	32196	2.04	1.0E-115	7661883	NT	Homo sapiens KIAA00054 gene product; Helicase (KIAA00054), mRNA
6434	19202	32199	2.04	1.0E-115	7661883	NT	Homo sapiens KIAA00054 gene product; Helicase (KIAA00054), mRNA
6835	19497	32521	0.83	1.0E-115	T86774.1	EST_HUMAN	y486b08.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115095 5' similar to SP-DPOG_YEAST P15801 DNA POLYMERASE GAMMA;
7178	19864	32935	1.54	1.0E-115	AI076598.1	EST_HUMAN	oz31a08.x1 Soares fetal spleen Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:1676814 3'
7178	19864	32936	1.54	1.0E-115	AI076598.1	EST_HUMAN	oz31a08.x1 Soares fetal spleen Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:1676814 3'
7308	19991	33098	8.22	1.0E-115	AB023212.1	NT	Homo sapiens mRNA for KIAA0985 protein, partial cds
8060	20754	33885	13.71	1.0E-115	BE830187.1	EST_HUMAN	RC8-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA
8060	20754	33886	13.71	1.0E-115	BE830187.1	EST_HUMAN	RC8-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA
8712	21404	34548	2.15	1.0E-115	11434772	NT	Homo sapiens eukaryotic translation initiation factor 4B (EIF4B), mRNA
9675	22327	35522	0.6	1.0E-115	BF382029.1	EST_HUMAN	601816352F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4050108 5'
9890	22549	35743	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
9890	22549	35744	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
10418	23064	36284	1	1.0E-115	AI221878.1	EST_HUMAN	gg9e009.x1 Soares NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10418	23064	36285	1	1.0E-115	AI221878.1	EST_HUMAN	gg9e009.x1 Soares NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10426	23072	36293	0.82	1.0E-115	AI524687.1	EST_HUMAN	th12a07.x1 NCI CGAP_GLL1 Homo sapiens cDNA clone IMAGE:2118036 3' similar to TR:O16129 O16129 PHENYLALANINE TRNA SYNTHETASE;
10817	23310	36549	7.62	1.0E-115	AW571544.1	EST_HUMAN	x63208.x1 NCI CGAP_UH Homo sapiens cDNA clone IMAGE:2839239 3' similar to SW:CAYP_CANIFA P10463 CALYPHOSINE;
10869	23549	36797	1.33	1.0E-115	9910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11225	23888	37174	1.54	1.0E-115	BE045890.1	EST_HUMAN	h454c10.x1 NCL_CGAP_Par3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ;
11225	23888	37175	1.64	1.0E-115	BE045890.1	EST_HUMAN	h454c10.x1 NCL_CGAP_Par3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ;
11374	23981	37281	2.27	1.0E-115	4502528	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) mRNA
11775	24368	37699	2.53	1.0E-115	BE255549.1	EST_HUMAN	601111744F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352379 5'
11842	24426	37767	1.63	1.0E-115	AW884375.1	EST_HUMAN	QV3-OT0065-200300-137-112 OT0065 Homo sapiens cDNA
11920	24481		2.16	1.0E-115	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
559	13341	25069	1.98	1.0E-116	BE275502.1	EST_HUMAN	601121347F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2988875 5'
783	13555	26216	2.21	1.0E-116	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
839	13009		1.70	1.0E-116	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
1990	14726	27447	2.55	1.0E-116	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
1990	14726	27448	2.55	1.0E-116	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
2090	15595	27552	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2090	15595	27553	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2305	15030	27767	1.95	1.0E-116	5453941	NT	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPEF1) mRNA
2340	15063		1.36	1.0E-116	U78308.1	NT	Human olfactory receptor pseudo, olfr17-201-1 (OR17-201-1) gene, olfactory receptor olfr17-32 (OR17-32) gene and olfactory receptor pseudo, olfr17-01 (OR17-01) pseudogene, complete cds
2458	15178	27915	2.84	1.0E-116	AB018333.1	NT	Homo sapiens mRNA for KIAA0700 protein, partial cds
2738	15533	28183	1.53	1.0E-116	BE89256.1	EST_HUMAN	601513337F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914600 5'
3171	15934	28582	4.97	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
3171	15934	28583	4.87	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
4345	17064	29713	2.43	1.0E-116	5031954	NT	Homo sapiens sodium phosphate transporter 3 (NPT3) mRNA
4803	17534	30158	1.57	1.0E-116	A1907096.1	EST_HUMAN	PM-BT135-070499-016 BT135 Homo sapiens cDNA
5197	18005	30627	0.87	1.0E-116	A1302062.1	EST_HUMAN	qnt19d04.x1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1898696 3' similar to contains element MER25 repetitive element ;
5889	18674	31619	4.4	1.0E-116	W42822.1	EST_HUMAN	zc24d07.r1 Soares senescent fibroblasts NB-HSF Homo sapiens cDNA clone IMAGE:323245 5' similar to SW:MDHM_MOUSE P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR ;
6117	18995	31862	1.8	1.0E-116	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
6117	18995	31863	1.8	1.0E-116	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
6184	18981	31934	0.78	1.0E-116	BE408097.1	EST_HUMAN	601302281F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636764 5'
6421	19189		1.55	1.0E-116	BE158133.1	EST_HUMAN	MR2-HT0379-210200-102-b04 HT0379 Homo sapiens cDNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6844	19544	32572	1.19	1.0E-118	C02944.1	EST_HUMAN	C02944 Human heart cDNA (Ynakamura) Homo sapiens cDNA clone 3NHCO567
7102	19790	32855	5.74	1.0E-118	AV716314.1	EST_HUMAN	AV716314 DCB Homo sapiens cDNA clone DCBCCG08 5'
8267	20961	34101	1.37	1.0E-118	AA354258.1	EST_HUMAN	EST62685 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8267	20961	34102	1.37	1.0E-118	AA354258.1	EST_HUMAN	EST62685 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8379	21071	34209	0.98	1.0E-118	A1904151.1	EST_HUMAN	CM-BT043-090299-075 BT043 Homo sapiens cDNA
8836	21528	34674	1.66	1.0E-118	BE565507.1	EST_HUMAN	601338268F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680680 5'
8997	21687	34837	1.61	1.0E-118	A1218352.1	EST_HUMAN	qH09c05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844168 3' similar to gb:X63741.mer1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
9573	22226	35411	1.52	1.0E-118	11418646	NT	Homo sapiens laminin, alpha 2 (merotin, congenital muscular dystrophy) (LAMA2), mRNA
10170	22818	36038	0.74	1.0E-118	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-I) gene
10170	22818	36037	0.74	1.0E-118	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-I) gene
10246	22894	36104	0.78	1.0E-118	BE158913.1	EST_HUMAN	QV4-HT0401-281299-083-c09 HT0401 Homo sapiens cDNA
10586	23281	36519	2.4	1.0E-118	BF335849.1	EST_HUMAN	CM2-CT0482-300800-349-e06 CT0482 Homo sapiens cDNA
11080	23750	37025	2.85	1.0E-118	A1987140.1	EST_HUMAN	qk41e04.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1835102 3' similar to WP:B0495.7 CE01765;
12625	25267	37025	1.88	1.0E-118	AL134889.1	EST_HUMAN	DKFZ762L1110_1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762L1110 5'
545	13328	25959	1.67	1.0E-117	4826636	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
1055	15558	26474	0.96	1.0E-117	AF124393.1	NT	Mus musculus fragile-X-related protein 1 (Fxr1h) gene, exons 13a through 15
1747	14489	27188	1.02	1.0E-117	AF123320.1	NT	Homo sapiens lymphocyte activation-associated protein mRNA, complete cds
1823	14562	27274	1.51	1.0E-117	M19816.1	NT	Human apolipoprotein B-100 (apoB) gene, exon 10
2208	14936	27674	1.54	1.0E-117	AW957699.1	EST_HUMAN	EST369769 MAGE resequences, MAGE Homo sapiens cDNA
3252	16024	28674	1.64	1.0E-117	AA978114.1	EST_HUMAN	qg32c11.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'
3971	16720	29355	2.1	1.0E-117	AA318723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
4310	17049	29674	2.03	1.0E-117	8059564	NT	Homo sapiens collagen, type IV, alpha 5 (Alport syndrome) (COL4A5), mRNA
4538	17273	29905	2.95	1.0E-117	AL042120.1	EST_HUMAN	DKFZp434C1120_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434C1120 5'
4674	17408	30043	1.27	1.0E-117	X89870.1	NT	H. sapiens mRNA for TPCR16 protein
4674	17408	30044	1.27	1.0E-117	X89870.1	NT	H. sapiens mRNA for TPCR16 protein
4759	17491	30119	10.03	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4759	17491	30120	10.03	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4887	17614	30233	3.57	1.0E-117	AB020873.1	NT	Homo sapiens mRNA for KIAA0868 protein, complete cds
5136	17854	30471	0.73	1.0E-117	6012481	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
5264	18070	30899	3.01	1.0E-117	BE730508.1	EST_HUMAN	601562857F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832214 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6860	17937	30574	0.86	1.0E-117	AA323348.1	EST_HUMAN	EST26111 Cerebellum II Homo sapiens cDNA 5' end similar to similar to zinc finger domain
7350	20031	33108	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7350	20031	33109	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7446	20122	33212	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 6'
7446	20122	33213	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7878	20573	33699	3.38	1.0E-117	AI950145.1	EST_HUMAN	wp86b07.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2468629 3' similar to TR:O75085
8210	20904	34039	2.29	1.0E-117	10834089	NT	O75085 KIAA0477 PROTEIN. ;
8210	20904	34040	2.29	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8310	21004	34141	0.56	1.0E-117	AI904151.1	EST_HUMAN	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8310	21004	34142	0.56	1.0E-117	AI904151.1	EST_HUMAN	CM-BT043-090299-075 BT043 Homo sapiens cDNA
9199	21868	35033	2.25	1.0E-117	D16524.1	NT	CM-BT043-090299-075 BT043 Homo sapiens cDNA
9686	22338	35332	2.07	1.0E-117	BE733922.1	EST_HUMAN	Human gene for very low density lipoprotein receptor, exon 11
9846	25127	35987	2.9	1.0E-117	AF099033.1	NT	601569317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5'
10489	23115	36345	1.11	1.0E-117	11420222	NT	Homo sapiens gamma-aminobutyric acid type B receptor 2 (GABABR2) mRNA, complete cds
10765	23449	36991	1.77	1.0E-117	D83776.1	NT	Homo sapiens Drosophila Kelch like protein (DKELCHL), mRNA
10964	23640	36991	2.88	1.0E-117	11424835	NT	Human mRNA for KIAA0191 gene, partial cds
10964	23640	36992	2.88	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11243	23905	37196	3.32	1.0E-117	AB011541.1	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11243	23905	37197	3.32	1.0E-117	BE269856.1	EST_HUMAN	Homo sapiens mRNA for MEGF8, partial cds
11369	23976	37501	14.73	1.0E-117	4501848	NT	Homo sapiens mRNA for MEGF8, partial cds
11587	24186	37502	2.02	1.0E-117	4501848	NT	Homo sapiens mRNA for MEGF8, partial cds
11587	24186	37502	2.02	1.0E-117	AF161500.1	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
68	12898	25530	5.98	1.0E-118	AL045854.1	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
94	12920	25557	2.13	1.0E-118	7657016	NT	Homo sapiens HSPC151 mRNA, complete cds
504	13288	25922	5.67	1.0E-118	5174890	NT	Homo sapiens cDNA clone DKFZp434i056 5'
894	15555	26328	0.96	1.0E-118	BE389705.1	EST_HUMAN	Homo sapiens hypothetical protein (D3328E19.G1.1), mRNA
2227	14955	27693	2.04	1.0E-118	BE389705.1	EST_HUMAN	Homo sapiens sine oculis homeobox (Drosophila) homolog 1 (SIX1) mRNA
2227	14955	27694	2.04	1.0E-118	BE389705.1	EST_HUMAN	Homo sapiens NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2227	14955	27695	2.04	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2329	15054	28189	1.68	1.0E-118	AW951729.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2744	15450	28190	2.61	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
2744	15450	28190	2.61	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
3102	15967		4.64	1.0E-118	Y13932.1	NT	Human sapiens PRKY exon 7

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3190	15953	28805	4.67	1.0E-118	AI347694.1	EST_HUMAN	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
3190	15953	28806	4.67	1.0E-118	AI347694.1	EST_HUMAN	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
4067	16311	29439	4.77	1.0E-118	D23660.1	NT	Human mRNA for ribosomal protein, complete cds
4659	17393	30028	0.9	1.0E-118	11425793	NT	Human mRNA for ribosomal protein, complete cds
5337	18140	30800	1.87	1.0E-118	AF142624.1	NT	Homo sapiens KIAA0478 gene product (KIAA0478), mRNA
5337	18140	30801	1.87	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5543	18340	31247	0.94	1.0E-118	11422054	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5543	18340	31248	0.94	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5684	18477	31395	1.24	1.0E-118	M55109.1	NT	Homo sapiens reelin (RELN), mRNA
5772	18563	31491	0.83	1.0E-118	11425600	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 4
5772	18563	31492	0.83	1.0E-118	11425600	NT	Homo sapiens T-box 4 (TBX4), mRNA
5853	18640	31578	1.49	1.0E-118	11420764	NT	Homo sapiens T-box 4 (TBX4), mRNA
6592	19355	32368	1.44	1.0E-118	4557732	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6592	19355	32369	1.44	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6967	19689	32738	1.12	1.0E-118	AL043761.1	EST_HUMAN	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6967	19689	32739	1.12	1.0E-118	AL043761.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434O0127 5'
7500	20172	33284	5.63	1.0E-118	11431050	NT	DKFZp434O0127.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434O0127 5'
7733	20397	33512	0.86	1.0E-118	BF683272.1	EST_HUMAN	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7872	20567	33663	2.17	1.0E-118	BE781223.1	EST_HUMAN	602141620F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302749 5'
8282	20976	34116	6.58	1.0E-118	BE062855.1	EST_HUMAN	601469159F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3872247 5'
8282	20976	34117	6.58	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
8288	20982	34122	1.37	1.0E-118	AA443024.1	EST_HUMAN	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
8288	20982	34123	1.37	1.0E-118	AA443024.1	EST_HUMAN	z08d07.r1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
8573	21265	34404	1.01	1.0E-118	AB002381.1	NT	z08d07.r1 Soares_NIHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
8573	21265	34405	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8621	21313	34455	2.06	1.0E-118	4557732	NT	Human mRNA for KIAA0383 gene, partial cds
8621	21313	34456	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8621	21313	34458	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8933	21624	34767	4.95	1.0E-118	BE263134.1	EST_HUMAN	601144953F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160502 5'
8984	21655	34808	0.55	1.0E-118	AL048474.2	EST_HUMAN	DKFZp588K1824.r1 588 (synonym: huter1) Homo sapiens cDNA clone DKFZp588K1824
9493	22146	35327	1.53	1.0E-118	7657016	NT	Homo sapiens hypothetical protein (DJ328E18.C1.1), mRNA
9886	22536	35731	0.98	1.0E-118	AL138321.1	EST_HUMAN	DKFZp547O017.1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547O017 5'
10274	22922	36134	1.88	1.0E-118	BF196407.1	EST_HUMAN	7n17e09.x1 NCI_CGAP_Bim23 Homo sapiens cDNA clone IMAGE:3564785 3' similar to SW:ZP3A_HUMAN
							P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10365	23012	36227	0.46	1.0E-118	AW271289.1	EST_HUMAN	xs46a10.x1 NCL CGAP_Kd111 Homo sapiens cDNA clone IMAGE:2772868 3' similar to SW_BODG_HUMAN 075936 GAMMA-BUTYROBETAINE-2-OXOGLUTARATE DIOXYGENASE ;
10431	23077	36300	0.65	1.0E-118	AW296351.1	EST_HUMAN	UJ-H-BW0-sio-e-07-QJL.s1 NCL CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729772 3'
11206	23869	37155	1.91	1.0E-118	BF685214.1	EST_HUMAN	602141528F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4302786 5'
11236	23999	37186	1.8	1.0E-118	11055988	NT	Homo sapiens protein with polyglutamine repeat; calcium (ca2+) homeostasis endoplasmic reticulum protein (ERPR0T213-21), mRNA
11246	23908	37201	10.23	1.0E-118	AA315007.1	EST_HUMAN	EST186814 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to dynein, light chain 1, cytoplasmic
11548	24147	37457	1.68	1.0E-118	BE908676.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11548	24147	37458	1.68	1.0E-118	BE908676.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11551	24150	37481	1.91	1.0E-118	BF083687.1	EST_HUMAN	QV0-UM0081-120800-385-b12 UM0081 Homo sapiens cDNA
11551	24150	37482	1.61	1.0E-118	BF083687.1	EST_HUMAN	QV0-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
741	13514	26173	0.97	1.0E-119	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
1014	16568	28433	1.61	1.0E-119	7705607	NT	Homo sapiens CGI-105 protein (LOC51011), mRNA
1926	14982	27374	5.97	1.0E-119	AB023147.1	NT	Homo sapiens mRNA for KIAA0930 protein, partial cds
3099	15884	28606	1.57	1.0E-119	8922205	NT	Homo sapiens hypothetical protein FLJ10052 (FLJ10052), mRNA
3234	15996		0.8	1.0E-119	AA916760.1	EST_HUMAN	on10605.s1 NCL CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1556241 3' similar to WP:E04F8.2
3934	16684	29325	1.42	1.0E-119	4504116	NT	CE01214 ;
5253	18059	30688	2.5	1.0E-119	AU133399.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5266	18072	30701	21.82	1.0E-119	M89914.1	NT	AU133399 NT2RP4 Homo sapiens cDNA clone NT2RP4001891 5'
5270	18076	30706	3.11	1.0E-119	BE936121.1	EST_HUMAN	Human neurofibromin (NF1) gene, complete cds
5347	18150	30630	1.63	1.0E-119	AV693731.1	EST_HUMAN	RC1-NN0073-250800-018-g06 NN0073 Homo sapiens cDNA
5503	18301	31201	0.63	1.0E-119	AL134603.1	EST_HUMAN	AV693731 GKX Homo sapiens cDNA clone GKCDHB03 5'
5503	18301	31202	0.63	1.0E-119	AL134603.1	EST_HUMAN	DKFZp762M0710_r1 762 (synonym: hme2) Homo sapiens cDNA clone DKFZp762M0710 5'
6036	18818	31776	7.67	1.0E-119	A150703.1	EST_HUMAN	DKFZp762M0710_r1 762 (synonym: hme2) Homo sapiens cDNA clone DKFZp762M0710 5'
6190	18867	31940	0.92	1.0E-119	AF315963.1	NT	qb77c06.x1 Soares_fetal_NBRH19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW_K1CJ_MOUSE P02635 KERATIN, TYPE I CYTOSKELETAL 10 ;
6190	18867	31941	0.92	1.0E-119	AF315963.1	NT	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6239	19013	31987	0.85	1.0E-119	AI478732.1	EST_HUMAN	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6370	19139	32135	2.62	1.0E-119	X06292.1	NT	hm23f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157451 3'
6380	19149	32148	4.69	1.0E-119	AW974193.1	EST_HUMAN	Human c-fos/pro-oncogene
7310	19093	33070	1.5	1.0E-119	BE796614.1	EST_HUMAN	EST1386296 MAGE resequences, MAGM Homo sapiens cDNA
8590	21252	34390	1.19	1.0E-119	BE615150.1	EST_HUMAN	601692005F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946081 5'
							601280584F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622526 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9807	22458	35883	1.15	1.0E-119	11036643	NT	Homo sapiens KIAA0477 gene product (KIAA0477), mRNA
10006	22654	35867	0.55	1.0E-119	AI148798.1	EST_HUMAN	qf43a11.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752764 3' similar to TR:O13458
10146	22794	36008	3.35	1.0E-119	AA465124.1	EST_HUMAN	Q13458 GUANINE NUCLEOTIDE EXCHANGE FACTOR PROTEIN TRIO. ;
10401	23047	36283	1.29	1.0E-119	AJ297701.1	NT	aa32705.1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814977 5'
10443	23089	36317	0.71	1.0E-119	11425837	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10517	23163	36390	0.71	1.0E-119	11425837	NT	Homo sapiens hypothetical protein FLJ10206 (FLJ10206), mRNA
10985	23660	36913	4.16	1.0E-119	AB032261.1	NT	Homo sapiens hypothetical protein FLJ10206 (FLJ10206), mRNA
10985	23660	36914	2.38	1.0E-119	AJ297701.1	NT	Homo sapiens Sod mRNA for stearoyl-CoA desaturase, complete cds
11159	23826		2.38	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
12198	25326		6.31	1.0E-119	BF569571.1	EST_HUMAN	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
294	13100	25741	2.16	1.0E-120	AW847519.1	EST_HUMAN	602166072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310633 5'
1018	13778	26439	1.43	1.0E-120	4507334	NT	RC3-CT0212-240989-011-03 CT0212 Homo sapiens cDNA
1018	13778	26440	2.49	1.0E-120	AF248540.1	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
1405	14152	26832	2.49	1.0E-120	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1597	14343	27033	2.31	1.0E-120	N44873.1	EST_HUMAN	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1789	14539	27250	3.08	1.0E-120	AF167706.1	NT	yy40g12.1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:273768 5'
2100	14831	27565	1.21	1.0E-120	4557250	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
2100	14831	27566	0.92	1.0E-120	AB011399.1	NT	Homo sapiens distalotin and metalloprotease domain 10 (ADAM10) mRNA
2531	15247	27985	0.92	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
3302	13100	25741	5.24	1.0E-120	4755124	NT	Homo sapiens gene for AF-6, complete cds
4325	17064	26892	1.59	1.0E-120	4507334	NT	Homo sapiens aquaporin 4 (AQP4), splice variant b, mRNA
4325	17064	26893	1.95	1.0E-120	AF056490.1	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
4514	17349	26983	2.22	1.0E-120	AF098463.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4614	17349	26984	2.22	1.0E-120	AF098463.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
5085	17784	30401	1.36	1.0E-120	4504116	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
5133	17851	30468	0.9	1.0E-120	AI190903.1	EST_HUMAN	Homo sapiens stanniocalcin (STC) gene, partial cds
5849	18444	31357	16.61	1.0E-120	BF568222.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5849	18444	31358	16.61	1.0E-120	BF568222.1	EST_HUMAN	qf61f03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733981 3'
6350	19120	32110	0.57	1.0E-120	M29428.1	NT	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
6350	19120	32111	0.57	1.0E-120	M29428.1	NT	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
7471	20144	33236	1.77	1.0E-120	D34619.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
7795	20490	33612	5.22	1.0E-120	Y00067.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
							Human TBXAS1 gene for thromboxane synthase, exon 7
							Human gene for neurofilament subunit M (NF-M)

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7795	20490	33613	5.22	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)
8230	20824	34063	2.43	1.0E-120	BF337599.1	EST_HUMAN	802035352F1 NCI_CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4183333 5'
8303	20997	34135	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8303	20997	34136	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8307	21001	34138	2.33	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8307	21001	34139	2.33	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8352	21046	34182	1.17	1.0E-120	AB007934.1	NT	Homo sapiens mRNA for KIAA0465 protein, partial cds
9401	22063	35233	5.26	1.0E-120	BE392102.1	EST_HUMAN	801307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9401	22063	35234	5.26	1.0E-120	BE392102.1	EST_HUMAN	801307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
9645	22997	35492	3.75	1.0E-120	BF308641.1	EST_HUMAN	801888956F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122876 5'
9660	22312	35510	8.25	1.0E-120	AU133205.1	EST_HUMAN	AU133205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'
9677	22329	35525	0.79	1.0E-120	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
9792	22443		0.54	1.0E-120	AI904151.1	EST_HUMAN	GM-BT043-060200-075 BT043 Homo sapiens cDNA
9976	22624	35631	2.55	1.0E-120	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
11071	23741	37015	3.72	1.0E-120	BE286387.1	EST_HUMAN	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'
11316	24007	37311	2.06	1.0E-120	BE987819.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11316	24007	37312	2.06	1.0E-120	BE987819.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11650	24247	37567	1.38	1.0E-120	U94774.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, 5'UTR and exon 1
71	12898	25534	1.08	1.0E-121	Y18000.1	NT	Homo sapiens NF2 gene
369	13165	26908	0.83	1.0E-121	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
707	15549	28130	1.31	1.0E-121	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
1568	14315	27001	2.81	1.0E-121	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
1958	14694	27407	1.33	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate 4-phosphatase, type I, 107kD (INPP4A), splice variant a, mRNA
1958	14694	27408	1.33	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate 4-phosphatase, type I, 107kD (INPP4A), splice variant a, mRNA
1964	14700	27416	1.18	1.0E-121	M95988.1	NT	Human prothymine converting enzyme (NEC2) gene, exon 9
1964	14700	27416	1.18	1.0E-121	M95988.1	NT	Human prothymine converting enzyme (NEC2) gene, exon 9
2095	14826	27659	1.51	1.0E-121	L79631.1	NT	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
3079	15844	28486	3.51	1.0E-121	Y19208.1	NT	Homo sapiens h-lb3 gene for hair keratin, exons 1 to 9
3079	15844	28487	3.51	1.0E-121	Y19208.1	NT	Homo sapiens h-lb3 gene for hair keratin, exons 1 to 9
3525	16281	28936	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3525	16281	28937	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3666	16419	29090	7.35	1.0E-121	AF155166.2	NT	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4296	17035	29663	2	1.0E-121	AI263294.1	EST_HUMAN	q657b01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2005417 3'
4919	17647	30259	3.24	1.0E-121	X81937.1	NT	H. sapiens ECE-1 gene (exon 17)
5186	17994	30510	0.97	1.0E-121	BE222250.1	EST_HUMAN	h009f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166119 3'
5474	18273	31187	0.85	1.0E-121	BE271424.1	EST_HUMAN	601140485F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049820 5'
6524	19290	32294	0.91	1.0E-121	M81463.1	NT	Human glucose transporter (GLUT4) gene, complete cds
6788	19532		0.68	1.0E-121	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
6866	17943	30537	1.78	1.0E-121	AW898086.1	EST_HUMAN	RC3-NIN0068-270400-011-402 NN0068 Homo sapiens cDNA
6866	17943	30538	1.78	1.0E-121	AW898086.1	EST_HUMAN	RC3-NIN0068-270400-011-402 NN0068 Homo sapiens cDNA
7838	20533	33680	2.11	1.0E-121		NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2), mRNA
7842	20537	33684	2.45	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
7842	20537	33685	2.45	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
9758	22409	35615	1.21	1.0E-121	AW583858.1	EST_HUMAN	la05g05.y1 Human Pancreatic islets Homo sapiens cDNA 5' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA :
9758	22409	35616	1.21	1.0E-121	AW583858.1	EST_HUMAN	la05g05.y1 Human Pancreatic islets Homo sapiens cDNA 5' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA :
10675	23366	36609	2.95	1.0E-121	11427798	NT	Homo sapiens COX11 (yeast) homolog, cytochrome c oxidase assembly protein (COX11), mRNA
10683	23374	36616	1.28	1.0E-121	AF064200.1	NT	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E458 allele, complete cds
10889	23569	36820	3.46	1.0E-121	7330334	NT	Homo sapiens chloride intracellular channel 4 like (CLIC4L), mRNA
10917	23597	36844	2.53	1.0E-121	N59824.1	EST_HUMAN	W74c01.s1 Sceres fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:248448 3'
11309	23968	37269	2.83	1.0E-121	AU119320.1	EST_HUMAN	AU119320 HEMBA1 Homo sapiens cDNA clone HEMBA1006638 5'
261	13069	25707	2.28	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
327	13128	25763	2.63	1.0E-122	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
348	13147	25787	2.14	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
862	13631	26302	3.99	1.0E-122	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
1198	13950	26814	4.29	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
1688	14432	27128	1.28	1.0E-122	AF167703.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1707	14450	27150	1.35	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1707	14450	27151	1.35	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1807	14547	27262	4.54	1.0E-122	BE908024.1	EST_HUMAN	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898358 5'
2495	15212	27894	5.21	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2495	15212	27955	5.21	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2844	15012	28280	1.41	1.0E-122	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
4795	17528	30148	5.04	1.0E-122	4502186	NT	Homo sapiens amyloid beta (A4) precursor protein (protease resistant, Alzheimer disease) (APP), mRNA
4930	17658		1.46	1.0E-122	AW504645.1	EST_HUMAN	UI-HF-BNO-ell-a-03-Q-UJLT NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079948 5'
5476	18275	31170	1.36	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354232 5'
6658	18275	31170	7.1	1.0E-122	BE256038.1	EST_HUMAN	601113567F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354232 5'
7113	19801	32865	0.73	1.0E-122	AA88671.1	EST_HUMAN	ak49h05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409339 3'
8695	21387	34530	0.65	1.0E-122	AJ276801.1	NT	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMRT1)
8926	21617	34761	1.21	1.0E-122	11424216	NT	Homo sapiens lethal giant larvae (Drosophila) homolog 2 (LLGL2), mRNA
9223	21902	35073	1.19	1.0E-122	A359818.1	EST_HUMAN	q62h07.x1 NCI_CGAP_Brm23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1. ;
9223	21902	35074	1.19	1.0E-122	A359818.1	EST_HUMAN	q62h07.x1 NCI_CGAP_Brm23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1. ;
10034	22882	35899	1.05	1.0E-122	AL117234.1	NT	Novel human gene mapping to chromosome X, isoform of dli (proto-oncogene)
10908	23688	36834	2.17	1.0E-122	AW955834.1	EST_HUMAN	EST367904 IMAGE resequences, MAGD Homo sapiens cDNA
11358	24046	37349	1.88	1.0E-122	AB024068.1	NT	Homo sapiens gene for B120, exon 10
11838	24509		6.6	1.0E-122	11418187	NT	Homo sapiens phosphomannomutase 1 (PMM1), mRNA
751	13523	26181	1.74	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brm57 Homo sapiens cDNA clone IMAGE:4153670 5'
751	13523	26182	1.74	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brm57 Homo sapiens cDNA clone IMAGE:4153670 5'
892	13754	26415	5.4	1.0E-123	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C046
1001	13761	26422	2.5	1.0E-123	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1216	13906	26634	5.58	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1216	13906	26635	5.58	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1438	14185	26871	0.91	1.0E-123	AJ388641.1	NT	Homo sapiens partial mRNA for immunoglobulin kappa chain variable region (IGVK gene), sample GN02
2092	14823	27555	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27556	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27557	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2313	15038		3.62	1.0E-123	7705862	NT	Homo sapiens RABO-like protein (LOC51209), mRNA
3245	16007	28657	0.95	1.0E-123	6012617	NT	Homo sapiens glutathione S-transferase (glutathione S-transferase) (GSTA1), mRNA
5361	18163	30847	1.56	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (RALBP) gene, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5361	18163	30848	1.56	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (RALBP) gene, complete cds
5494	18293	31191	1.82	1.0E-123	BE798746.1	EST_HUMAN	601591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'
6377	19148	32145	2.69	1.0E-123	AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone HEMBA1003591 5'
6905	19643	32888	1.2	1.0E-123	H53198.1	EST_HUMAN	y98403.f1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:202444 5' similar to SP:YAK1_YEAST P14680 PROTEIN KINASE YAK1
6915	19652	32698	1.25	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
7084	19783	32849	2.87	1.0E-123	U55268.1	NT	Human hBRAVO/Nr-CAM precursor (hBRAVO/Nr-CAM) gene, complete cds
7302	19885	33061	1.02	1.0E-123	11525833	NT	Homo sapiens heparan sulfate (glucosaminyl) 3-O-sulfotransferase 2 (HS3ST2), mRNA
7542	20212	33312	1.3	1.0E-123	11436439	NT	Homo sapiens 2'-5'-oligoadenylate synthetase 2 (OAS2), mRNA
7561	20221	33324	2.18	1.0E-123	BE263001.1	EST_HUMAN	601152815F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3608182 5'
7818	20511	33636	0.87	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
7818	20511	33637	0.87	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
8433	21126	35193	1.13	1.0E-123	AW371824.1	EST_HUMAN	RC4-BT0311-251198-012-407 BT0311 Homo sapiens cDNA
9269	22023	35193	2.43	1.0E-123	AB007823.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9405	22067	35239	15.48	1.0E-123	U08823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabelfa2) mRNA, complete cds
11720	24314	37637	4.86	1.0E-123	BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
11720	24314	37638	4.86	1.0E-123	BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
262	13070	25708	2.19	1.0E-124	4507600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
262	13070	25709	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
268	13076	25709	2.99	1.0E-124	D87676.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
473	13259	25898	2.84	1.0E-124	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
675	13450	26082	2.68	1.0E-124	AA367551.1	EST_HUMAN	z81b04.t1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
675	13450	26093	2.68	1.0E-124	AA367551.1	EST_HUMAN	G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
742	13515	26174	7.84	1.0E-124	AF155854.1	EST_HUMAN	z81b04.t1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
790	13562	26223	1.61	1.0E-124	4507500	NT	G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
884	13653	26321	1.94	1.0E-124	7705448	NT	Human putative ribosomal protein S1 mRNA
1325	14074	26747	4.95	1.0E-124	AF274892.1	NT	Homo sapiens hypofunctional protein (HSPC068), mRNA
1325	14074	26748	4.95	1.0E-124	AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1808	14548	27263	2.29	1.0E-124	AJ131712.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
2054	14786	27512	3.05	1.0E-124	BE879624.1	EST_HUMAN	Homo sapiens mRNA for nuclear RNA-helicase (nclh1 gene)
3358	16118	28774	0.85	1.0E-124	4504116	NT	601491715F1 NIH_MGC_89 Homo sapiens cDNA clone IMAGE:3933954 5'
							Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3482	16239	28895	1.25	1.0E-124	S78884.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3482	16239	28895	1.25	1.0E-124	S78884.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3640	16393	29033	1.54	1.0E-124	X13794.1	NT	H. sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and joined CDS)
3680	16630	29269	1	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4058	16801	29432	1.34	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4696	17430	30061	1.94	1.0E-124	AB024069.1	NT	Homo sapiens gene for B120, exon 11
4881	17808		1.13	1.0E-124	M18178.1	NT	Human fibronectin gene extra type III repeat (EDII), exon x+1
5215	18023	30847	12.12	1.0E-124	8922337	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5586	18383	31293	0.82	1.0E-124	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
5797	18588	31514	6.94	1.0E-124	BF696135.1	EST_HUMAN	602124644F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'
6077	18856	31823	0.91	1.0E-124	AV711263.1	EST_HUMAN	AV711263 Cu Homo sapiens cDNA clone CuAADF07 5'
6339	19109	32099	0.98	1.0E-124	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
6912	19849	32605	2.95	1.0E-124	Y11717.1	NT	M.musculus mRNA for hoxa3 gene
7037	19729	32786	0.94	1.0E-124	BE271295.1	EST_HUMAN	800943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2966585 5'
7037	19729	32787	0.94	1.0E-124	BE271295.1	EST_HUMAN	800943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2966585 5'
7452	20128	33220	0.92	1.0E-124	AA630331.1	EST_HUMAN	ec08h05.s1 Strategene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:855897 3'
8156	20850	33982	8.07	1.0E-124	4509654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
8362	21055	34195	1.28	1.0E-124	AW612106.1	EST_HUMAN	hg94e09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:095162
8362	21055	34196	1.28	1.0E-124	AW612106.1	EST_HUMAN	095162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE ;
9060	21749	34907	0.61	1.0E-124	AI799864.1	EST_HUMAN	hg94e09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:095162
9060	21749	34908	0.61	1.0E-124	AI799864.1	EST_HUMAN	095162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE ;
9390	22052	35223	2.31	1.0E-124	AV645633.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
9390	22052	35224	2.31	1.0E-124	AV645633.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
9477	22130	35309	0.62	1.0E-124	AF022855.1	NT	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'
9477	22130	35310	0.52	1.0E-124	AF022855.1	NT	AV645633 GLC Homo sapiens cDNA clone GLCACE04 3'
9508	22161	35342	7.57	1.0E-124	AI767133.1	EST_HUMAN	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
9508	22161	35343	7.57	1.0E-124	AI767133.1	EST_HUMAN	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
9771	22422	35630	1.57	1.0E-124	AW503755.1	EST_HUMAN	wf33f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
10804	23487		1.44	1.0E-124	11432087	NT	wf33f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
10976	23652	36905	1.61	1.0E-124	U94776.1	NT	U1-HF-BN0-elz-b-04-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078846 5'
11305	23964	37265	3.51	1.0E-124	AW665663.1	EST_HUMAN	Homo sapiens leucine-rich, glioma inactivated 1 (LGI1), mRNA
							Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17
							h05c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2960806 3'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11452	23219	36452	3	1.0E-124	AI448455.1	EST_HUMAN	h19a03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKRS PROTEIN;
11452	23219	36453	3	1.0E-124	AI448455.1	EST_HUMAN	h19a03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKRS PROTEIN;
12028	13450	26092	4.1	1.0E-124	AA397551.1	EST_HUMAN	z81b04.t1 Stratagene echizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12028	13450	26092	4.1	1.0E-124	AA397551.1	EST_HUMAN	z81b04.t1 Stratagene echizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12029	13450	26093	4.1	1.0E-124	AA397551.1	EST_HUMAN	z81b04.t1 Stratagene echizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
12454	24823	31026	1.61	1.0E-124	AB028016.1	NT	Homo sapiens mRNA for KIAA1083 protein, partial cds
12706	25279	30726	1.44	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12706	25279	30730	1.44	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
146	12981	25603	1.74	1.0E-125	BE219510.1	EST_HUMAN	h19a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177886 3' similar to TR:Q25058 Q25058 FIBROPELLEIN IA;
146	12981	25604	1.74	1.0E-125	BE219510.1	EST_HUMAN	h19a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177886 3' similar to TR:Q25058 Q25058 FIBROPELLEIN IA;
311	13115		5.49	1.0E-125	AB032908.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
417	12828	25441	5.47	1.0E-125	BE743922.1	EST_HUMAN	60157781F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926895 5'
628	13408	26043	1.18	1.0E-125	AI110956.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
628	13408	26044	1.18	1.0E-125	AI110956.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
711	13485	26134	1.56	1.0E-125	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
840	13610	26280	2.28	1.0E-125	AA042813.1	EST_HUMAN	z453c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857 cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
978	13743	26405	1.22	1.0E-125	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1131	13887	26545	1.76	1.0E-125	7662279	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
1688	15575	27105	0.99	1.0E-125	7661867	NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
1793	14533	27242	0.91	1.0E-125	U79027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1804	14544	27258	1.59	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
1804	14544	27259	1.59	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
2358	15080	27616	1.68	1.0E-125	AA011278.1	EST_HUMAN	z01g09.t1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:429568 5'
2508	15225	27967	0.99	1.0E-125	AA042813.1	EST_HUMAN	z453c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857 cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2604	15317	28057	1.3	1.0E-125	4504698	NT	Homo sapiens inhibin, alpha (INHIA) mRNA
2604	15317	28058	1.3	1.0E-125	4504698	NT	Homo sapiens inhibin, alpha (INHIA) mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3009	17674	28425	0.94	1.0E-125	BE018009.1	EST_HUMAN	bb7400.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048131 5' similar to TR:Q85904 Q85904
3839	16530	29228	0.92	1.0E-125	AA042813.1	EST_HUMAN	ZINC FINGER PROTEIN ;
4513	17248	29883	2.09	1.0E-125	11425114	NT	zK53c07.a1 Soares_pregnant_uterus_NihPU Homo sapiens cDNA clone IMAGE:486540 3' similar to
4513	17248	29884	2.09	1.0E-125	11425114	NT	gb:XB5857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
							Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
							Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
							Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
							hV39a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058
4971	12961	25903	1.48	1.0E-125	BE219610.1	EST_HUMAN	FIBROPELLEIN IA ;
4971	12961	25904	1.48	1.0E-125	BE219610.1	EST_HUMAN	hV59a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058
5783	18574	31503	3.16	1.0E-125	11439448	NT	FIBROPELLEIN IA ;
5802	18592	31517	0.91	1.0E-125	BE175196.1	EST_HUMAN	Homo sapiens KIAA00985 protein (KIAA00985), mRNA
5842	18630	31565	3.76	1.0E-125	BE892690.1	EST_HUMAN	QV2-HT0577-010300-165-506 HT0577 Homo sapiens cDNA
							601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918932 5'
							tu67c07.x1 NCI_CGAP_Gaa4 Homo sapiens cDNA clone IMAGE:2258108 3' similar to WP:Q45G9.2
5884	18670	31611	0.74	1.0E-125	AI679904.1	EST_HUMAN	CE01854 ;
6188	18965	31938	0.8	1.0E-125	BE738056.1	EST_HUMAN	601305670F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3640097 5'
6486	19253	32263	1.63	1.0E-125	BE562526.1	EST_HUMAN	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689790 5'
6486	19253	32254	1.63	1.0E-125	BE562526.1	EST_HUMAN	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689790 5'
6961	19443	32469	5.28	1.0E-125	X03427.1	NT	Homo sapiens (GF-II) gene, exon 5
6981	19443	32480	5.28	1.0E-125	X03427.1	NT	Homo sapiens (GF-II) gene, exon 5
7706	20370	33483	0.55	1.0E-125	BE515100.1	EST_HUMAN	601236183F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608084 5'
8444	21136	34273	0.90	1.0E-125	U90288.1	NT	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
8444	21136	34274	0.99	1.0E-125	U90288.1	NT	Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
9016	21706	34856	6.83	1.0E-125	BE181640.1	EST_HUMAN	QV1-HT0638-070500-191-d12 HT0638 Homo sapiens cDNA
9016	21706	34857	6.83	1.0E-125	BE181640.1	EST_HUMAN	QV1-HT0638-070500-191-d12 HT0638 Homo sapiens cDNA
							hV52b03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2171981 3' similar to TR:Q14089 Q14089
9281	22035	35207	0.96	1.0E-125	AI565996.1	EST_HUMAN	HYPOTHETICAL PROTEIN ;
10350	22967	36215	0.63	1.0E-125	BE794576.1	EST_HUMAN	601590348F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944531 5'
10391	23037	36253	1.06	1.0E-125	AB002298.1	NT	Human mRNA for KIAA0300 gene, partial cds
10581	23276	36514	3.23	1.0E-125	AF043458.1	NT	Homo sapiens IREL gene, exon 6
10758	23443	36988	1.61	1.0E-125	11425570	NT	Homo sapiens tyrosine receptor 1 (skeletal) (RYR1), mRNA
11081	23751	37026	3.94	1.0E-125	AB014567.1	NT	Homo sapiens mRNA for KIAA0667 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11259	23921	37213	1.74	1.0E-125	7609505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
11265	23927	37218	4.84	1.0E-125	AF028029.1	NT	Homo sapiens poly(A) binding protein II (PABP2) gene, complete cds
11377	23984	37284	1.02	1.0E-125	AW812899.1	EST_HUMAN	RC3-ST0186-250200-019-c11 ST0186 Homo sapiens cDNA
11486	24087	37397	3.58	1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
11488	24087	37398	3.68	1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
757	13529	26189	1.49	1.0E-126	4758007	NT	Homo sapiens CDC-like kinase (CLK) mRNA
899	13667	26331	1.45	1.0E-126	X68735.1	NT	H. sapiens gene for alpha1-antitrypsin, exon 3
2344	15067	27804	1.17	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2344	15067	27805	1.17	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2605	15318	28059	1.48	1.0E-126	6382078	NT	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3069	15855	28479	0.72	1.0E-126	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3070	15836	28479	7.54	1.0E-126	AA160709.1	EST_HUMAN	z072c03.r1 Stratagene pancreas (4937208) Homo sapiens cDNA clone IMAGE:602420 5'
3070	15836	28480	7.54	1.0E-126	AA160709.1	EST_HUMAN	z072c03.r1 Stratagene pancreas (4937208) Homo sapiens cDNA clone IMAGE:592420 5'
3620	16373	29014	1.09	1.0E-126	X53941.1	NT	H. sapiens DNA for liver cytochrome b5 pseudogene
3647	16400	29040	1.6	1.0E-126	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
4783	17515	30137	1.74	1.0E-126	N34078.1	EST_HUMAN	y078c06.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:267850 5'
5078	17797	30413	0.81	1.0E-126	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926895 5'
5616	18412	31325	0.68	1.0E-126	T69998.1	EST_HUMAN	y052b12.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:66527 3'
6139	18917	31887	3.22	1.0E-126	AA460075.1	EST_HUMAN	z060e03.r1 Soares fetal spleen_NK2-IF8_9w Homo sapiens cDNA clone IMAGE:796444 5' similar to TR:G1145980 G1145980 TITIN;
6197	18973	31949	4.2	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
6197	18973	31950	4.2	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
7399	20077	33157	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7399	20077	33158	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7602	20268	33375	0.62	1.0E-126	AU136463.1	EST_HUMAN	AU136463 PLACE1 Homo sapiens cDNA clone PLAGE1004325 5'
7655	20319	33428	0.69	1.0E-126	A1806483.1	EST_HUMAN	wf08d01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350009 3' similar to SW:MPP2_HUMAN Q14108 MAGUK P55 SUBFAMILY MEMBER 2;
7778	20473	33508	0.76	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
7778	20473	33507	0.76	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
7887	20582	33711	2.55	1.0E-126	X16609.1	NT	Human mRNA for anklyrin (variant 2.1)
8063	20777	33907	0.99	1.0E-126	AA483368.1	EST_HUMAN	ne74b12.s1 NCI_QGAP_Ew1 Homo sapiens cDNA clone IMAGE:909983 similar to SW:TSG6_HUMAN P98098 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR;
9696	22346	35539	0.87	1.0E-126	4505424	NT	Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10693	23384	36624	1.27	1.0E-126	M83196.1	NT	Human macrophage mannose receptor (MRC1) gene, exon 5
10706	23450	36692	2.36	1.0E-126	BF683175.1	EST_HUMAN	602139138F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4298240 5'
11501	24102	37414	5.47	1.0E-126	BE261680.1	EST_HUMAN	601149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5'
12490	17797	30413	7.17	1.0E-126	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'
168	12982	25622	4.63	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
168	12982	25623	4.63	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
169	12982	25622	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
169	12982	25623	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
267	13075	25716	3.54	1.0E-127	D87876.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
267	13075	25717	3.54	1.0E-127	D87876.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
881	13630	26301	2.03	1.0E-127	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
898	13684	26330	1.37	1.0E-127	U72621.2	NT	Homo sapiens lost on transformation LOT1 mRNA, complete cds
1686	14430	27128	1.08	1.0E-127	4827053	NT	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA
2058	14790	27515	2.44	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2058	14790	27516	2.44	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2197	14926	27661	6.02	1.0E-127	4506820	NT	Homo sapiens ribosomal protein L28 (RPL28) mRNA
2341	15064	27801	2.73	1.0E-127	AF246506.1	NT	Homo sapiens edicain mRNA, complete cds
2614	15325	28068	3.04	1.0E-127	X12881.1	NT	Human mRNA for cyclophilin 18
2626	15338	28081	1.1	1.0E-127	AA450131.1	EST_HUMAN	z42a02r1 Soares total fetus Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
2626	15338	28082	1.1	1.0E-127	AA450131.1	EST_HUMAN	z42a02r1 Soares total fetus Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
3701	16543	28178	1.21	1.0E-127	AW161297.1	EST_HUMAN	au80x06.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782594 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN ;contains element MER22 repetitive element;
4096	16638	29465	0.7	1.0E-127	AF135188.1	NT	Homo sapiens delayed rectifier potassium channel subunit 1sK mRNA, complete cds
4227	16968	29592	23.74	1.0E-127	7708239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51584), mRNA
4227	16968	29593	23.74	1.0E-127	7708239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51584), mRNA
4462	17108	29824	0.94	1.0E-127	AF252297.1	NT	Homo sapiens cytochrome P450 retinol metabolizing protein P450RAI-2 mRNA, complete cds
4594	17296	29926	4.35	1.0E-127	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
4590	17325		1.92	1.0E-127	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4625	17360	29993	1.28	1.0E-127	6812639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5620	18416	31328	1.37	1.0E-127	W03547.1	EST_HUMAN	z01a10.1 Soares melanocyte 2Nbl-IM Homo sapiens cDNA clone IMAGE:291258 5' similar to SW-PIP6_RAT P10888 1-PHOSPHATIDYLINOSITOL-4,6-BISPHOSPHATE PHOSPHODIESTERASE DELTA 1:
5650	18445	31359	2.4	1.0E-127	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
5713	18506	31428	4.25	1.0E-127	X85764.1	NT	H. sapiens NOS2 gene, exon 6
6070	18849	31813	2.17	1.0E-127	X84080.1	NT	H. sapiens TCF11 gene, exon 3-6
6228	19003	31978	5.28	1.0E-127	4504778	NT	Homo sapiens Integrin, beta 8 (ITGB8) mRNA
6560	19325	32332	0.99	1.0E-127	11421595	NT	Homo sapiens Immunoglobulin superfamily, member 3 (IGSF3), mRNA
6962	19444	32461	0.81	1.0E-127	4828977	NT	Homo sapiens reelin (RELN) mRNA
7684	20348	33461	1.65	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7684	20348	33462	1.65	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7691	20355	33470	0.84	1.0E-127	AW906292.1	EST_HUMAN	QV3-BN0046-150300-121-111 BN0046 Homo sapiens cDNA
8785	21477	34625	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8785	21477	34628	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9540	22193	35377	4.17	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9540	22193	35378	4.17	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9773	22424	35631	1	1.0E-127	A1298932.1	EST_HUMAN	qin94h09.x1 NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1896449 3'
10241	22889	36101	1.34	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
11107	23777	37050	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 98 (mortalin-2) (H. sapiens) (LOC83184), mRNA
11107	23777	37051	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 98 (mortalin-2) (H. sapiens) (LOC83184), mRNA
11627	24224	37546	3.25	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3919917 5'
11627	24224	37547	3.25	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3919917 5'
12244	12982	25622	2.25	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12244	12982	25623	2.25	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12444	24814	31048	2.89	1.0E-127	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
447	13233	25873	3.04	1.0E-128	BE895617.1	EST_HUMAN	601278127F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3618822 5'
2063	14795	27520	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2063	14795	27521	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2206	14934	27872	8.76	1.0E-128	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
2446	15165		1.1	1.0E-128	11437455	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA
3389	16148	28802	1.08	1.0E-128	AB033073.1	NT	Homo sapiens mRNA for KIAA1247 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4616	17351	23996	6.14	1.0E-128	11428673	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
5458	18257	31147	0.7	1.0E-128	X09538.1	NT	H sapiens gene for inter-alpha-trypsin inhibitor heavy chain H1, exon 12
5888	18672	31613	0.65	1.0E-128	BE747881.1	EST_HUMAN	601580468F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928037 5'
5888	18672	31614	0.65	1.0E-128	BE747881.1	EST_HUMAN	601580468F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928037 5'
6324	19094	32082	2.58	1.0E-128	11420885	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
6831	19493	32516	6.9	1.0E-128	BF224345.1	EST_HUMAN	7q86b10.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3'
7327	20010	33089	0.62	1.0E-128	BE614105.1	EST_HUMAN	601503846F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905794 5'
7692	20356	33471	0.67	1.0E-128	11545823	NT	Homo sapiens putative ABC transporter (WHITE2), mRNA
8446	21138	34276	0.73	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8446	21138	34277	0.73	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10037	22685	35903	1.63	1.0E-128	AA639198.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
10608	23302	36541	3.52	1.0E-128	11425254	NT	ns04e11.1 NCL_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1182820 similar to TR:G951338 G951338 CHROMOSOME SEGREGATION GENE HOMOLOG CAS. ;
10618	23311	36550	3.21	1.0E-128	AA926859.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA
10699	23390	36628	1.35	1.0E-128	AJ252080.1	NT	om8h08.s1 NCL_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1552383 3' similar to gb:X54941 CYCLIN-DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN);
10761	23445	36689	1.4	1.0E-128	BE384475.1	EST_HUMAN	Homo sapiens mRNA for TRABID protein (TRABID gene)
12117	24610		7.02	1.0E-128	AW955280.1	EST_HUMAN	601277828F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618750 5'
118	13188	25839	1.33	1.0E-129	S37722.1	NT	EST367300 MAGE resequences, MAGC Homo sapiens cDNA
404	13189	25839	1.19	1.0E-129	S37722.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1713	14456	27154	2.73	1.0E-128	AL098880.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1717	14480	27158	1.57	1.0E-128	AF240786.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
1717	14480	27158	1.57	1.0E-128	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1838	14576	27289	2.78	1.0E-129	11418522	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
3125	15890	28531	1.21	1.0E-129	Q14585	SWISSPROT	Homo sapiens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA
3125	15890	28532	1.21	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3125	15890	28533	1.21	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
4143	16885	29516	1.94	1.0E-129	AB040892.1	NT	ZINC FINGER PROTEIN HZF10
4247	16888	29611	2.26	1.0E-129	AW755254.1	EST_HUMAN	Homo sapiens mRNA for KIAA1459 protein, partial cds
4247	16888	29612	2.26	1.0E-129	AW755254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151835 similar to CMYA5 Cardiomypathy associated gene 5

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6000	18781	31742	3.73	1.0E-129	AJ008345.1	NT	Homo sapiens KVLQ11 gene
6816	19477	32499	0.56	1.0E-129	BE869983.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853688 5'
6816	19477	32500	0.56	1.0E-129	BE869993.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853688 5'
7027	19719	32776	4.15	1.0E-129	AJ008345.1	NT	Homo sapiens KVLQ11 gene
7090	19778	32844	3.93	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63694), mRNA
7428	20105	33191	2.49	1.0E-128	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
7428	20105	33192	2.49	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
8217	20911		3.94	1.0E-129	AB014534.1	NT	Homo sapiens mRNA for KIAA0834 protein, partial cds
9979	22627	35835	0.97	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9979	22627	35836	0.97	1.0E-129	AA682200.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10523	23169	36396	0.57	1.0E-129	AA682526.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
11186	23851	37137	4	1.0E-129	AA682526.1	EST_HUMAN	sa01c01.s1 Stratiogene schizo brain S11 Homo sapiens cDNA clone IMAGE:1020288 3'
11269	19779	32844	6.57	1.0E-129	11420850	NT	sa7207.r1 Soares NIH-MPUL S1 Homo sapiens cDNA clone IMAGE:1047589 5'
11615	24213	37637	1.38	1.0E-129	AU143115	EST_HUMAN	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63694), mRNA
11616	24213	37638	1.38	1.0E-129	AU143115	EST_HUMAN	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63694), mRNA
12104	24601		1.79	1.0E-129	H83155.1	EST_HUMAN	AU143115 Y79AA1 Homo sapiens cDNA clone Y79AA1001410 5'
12483	24842		2.66	1.0E-129	AL120739.1	EST_HUMAN	AU143115 Y79AA1 Homo sapiens cDNA clone Y79AA1001410 5'
74	12901	25538	1.3	1.0E-130	7705530	NT	Y49c05.r1 Soares fetal liver spleen TNFLS Homo sapiens cDNA clone IMAGE:189112 5' similar to SP-B48150 B48150 HP-26-HIBERNATION-RELATED PROTEIN - TAMIAS ASIATICUS-ASIAN ;
1147	13902	26584	0.89	1.0E-130	AB037835.1	NT	DKFZp762K171.1 762 (synonym: hme2) Homo sapiens cDNA clone DKFZp762K171 5'
1661	14407	27098	11.38	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens hypothetical protein (HSPC242), mRNA
1661	14407	27098	11.38	1.0E-130	BE275192.1	EST_HUMAN	Homo sapiens mRNA for KIAA1414 protein, partial cds
1976	14712		3.08	1.0E-130	X04092.1	NT	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346368 5'
2773	15478		5.37	1.0E-130	AJ010230.1	NT	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346368 5'
2881	16848	28290	1.17	1.0E-130	BE664219.1	EST_HUMAN	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346368 5'
2881	16848	28291	1.17	1.0E-130	BE664219.1	EST_HUMAN	Human gene for cathepsin (EC 1.11.1.8) exon 9 mapping to chromosome 11, band p13
3565	16320	28968	1.09	1.0E-130	AF240698.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
3750	15648	28290	5.36	1.0E-130	BE664219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
3750	15648	28291	5.36	1.0E-130	BE664219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685468 5'
3915	16895	28305	1.92	1.0E-130	AW503580.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685468 5'
4053	16798	29428	6.76	1.0E-130	AW843983.1	EST_HUMAN	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
4501	17237	29899	1.07	1.0E-130	AW363299.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685468 5'
5038	17571	30371	1.07	1.0E-130	AW363299.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685468 5'
5038	17571	30372	1.07	1.0E-130	AW363299.1	EST_HUMAN	ULHF-BNO-aky-g-06-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078731 5'
							Human T-cell receptor (V alpha 22.1, J alpha 1) mRNA
							CM4-CN0045-180200-511-402 CN0045 Homo sapiens cDNA
							RC0-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA
							RC0-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6629	19391	32405	0.55	1.0E-130	X57825.1	NT	Human germline immunoglobulin lambda light chain pseudogene (VIL1)
6723	19557	32587	0.81	1.0E-130	AW843875.1	EST_HUMAN	GM0-CN0046-170200-225-g03 CN0045 Homo sapiens cDNA
6723	19557	32588	0.81	1.0E-130	AW843875.1	EST_HUMAN	GM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6736	19570	32802	0.75	1.0E-130	11425446	NT	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7154	19841	32910	2.62	1.0E-130	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC8A7), mRNA
8582	21274	34553	0.45	1.0E-130	AF008551.1	NT	Homo sapiens aurora-related kinase 1 (ARK1) mRNA, complete cds
8718	21410	34553	2.39	1.0E-130	AW960242.1	EST_HUMAN	EST368312 MAGE resequences, MAGD Homo sapiens cDNA
9114	21802	34967	1.64	1.0E-130	AB037758.1	NT	Homo sapiens mRNA for KIAA1335 protein, partial cds
9833	22484	36340	1.25	1.0E-130	AW103454.1	EST_HUMAN	xs36606.x1 NCL CGAP_OV23 Homo sapiens cDNA clone IMAGE:2595874 3'
10463	23109	36341	0.51	1.0E-130	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
10463	23109	36341	0.51	1.0E-130	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
11242	23904	37194	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11242	23904	37195	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11703	24298	37624	2.67	1.0E-130	4504142	NT	Homo sapiens glutamate receptor, metabotropic 5 (GRM5) mRNA
12759	15478		1.56	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4	12832	25445	1.9	0.0E+00	AA228126.1	EST_HUMAN	zr68c04.r1 Soares NIH-MP_u_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811
4	12832	25446	1.9	0.0E+00	AA228126.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN. ;
7	12834	25449	1.02	0.0E+00	4885136	NT	zr68c04.r1 Soares NIH-MP_u_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811
14	12841	25454	0.72	0.0E+00	8923349	NT	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN. ;
14	12841	25455	0.72	0.0E+00	8923349	NT	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA
20	12848	25462	6.7	0.0E+00	D83327.1	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
20	12848	25463	6.7	0.0E+00	D83327.1	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
25	12853	25468	17.04	0.0E+00	AF141349.1	NT	Homo sapiens DCRR1 mRNA, partial cds
33	12861	25478	1.19	0.0E+00	5802897	NT	Homo sapiens DCRR1 mRNA, partial cds
35	12863	25481	0.82	0.0E+00	M58600.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
39	12867	25488	4.22	0.0E+00	6857825	NT	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA
55	12884	25512	0.78	0.0E+00	Y17151.2	NT	Human heparin cofactor II (HCF2) gene, exons 1 through 5
55	12884	25513	0.78	0.0E+00	Y17151.2	NT	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA
56	12885	25514	3.04	0.0E+00	D78804.1	EST_HUMAN	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
56	12885	25515	3.04	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (TF-ujwara) Homo sapiens cDNA clone GEN-516H08 5'
57	12886	25516	5.78	0.0E+00	L16558.1	NT	HUM516H08B Human placenta polyA+ (TF-ujwara) Homo sapiens cDNA clone GEN-516H08 5'
							Human ribosomal protein L7 (RPL7) mRNA, complete cds

Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
50	12888	25519	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07.3'
59	12888	25520	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07.3'
63	12891	25524	1.5	0.0E+00	M60876.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
65	12893		0.91	0.0E+00	M60876.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
73	12900	25536	10.36	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
73	12900	25537	10.36	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25536	10.18	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25537	10.18	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
80	12906	25544	0.78	0.0E+00	4501850	NT	Homo sapiens amiloride binding protein 1 (amine oxidase (copper-containing)) (ABP1), nuclear gene encoding mitochondrial protein, mRNA
81	12907		15.25	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
90	12916	25553	17.68	0.0E+00	5018088	NT	Homo sapiens actin, beta (ACTB) mRNA
93	12919	25558	23.28	0.0E+00	U89277.1	NT	Human polyomavirus 1 homolog (HPH1) mRNA, partial cds
99	12925	25562	3.51	0.0E+00	A1114743.1	EST_HUMAN	HA1347 Human fetal liver cDNA library Homo sapiens cDNA
100	12926	25563	1.72	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
105	12928	25566	1.33	0.0E+00	X91213.1	NT	H. sapiens nci1 gene (exon 2)
113	12935	25572	0.89	0.0E+00	A1623701.1	EST_HUMAN	ts38b05.x1 NCI_CGAP_U4 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR ;
114	12935	25572	1.47	0.0E+00	A1623701.1	EST_HUMAN	ts38b05.x1 NCI_CGAP_U4 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR ;
115	15513	25573	1.48	0.0E+00	N39040.1	EST_HUMAN	Y01109.1 Soares melanocyte 2Nbr-HM Homo sapiens cDNA clone IMAGE:270017 5'
115	15513	25574	1.48	0.0E+00	N39040.1	EST_HUMAN	Y01109.1 Soares melanocyte 2Nbr-HM Homo sapiens cDNA clone IMAGE:270017 5'
128	12943	25586	4.38	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
128	12943	25587	4.38	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
136	12950	25593	1.29	0.0E+00	T56945.1	EST_HUMAN	ya83g04.12 Stratiagene fetal spleen (#637205) Homo sapiens cDNA clone IMAGE:68310 5'
136	12950	25604	1.29	0.0E+00	T56945.1	EST_HUMAN	ya83g04.12 Stratiagene fetal spleen (#637205) Homo sapiens cDNA clone IMAGE:68310 5'
149	12964		8.88	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
153	12968	25609	2.1	0.0E+00	BF036881.1	EST_HUMAN	601460375F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863803 5'
155	12970		25.83	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
158	12973	25612	1	0.0E+00	AF111108.2	NT	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes
160	12975	25613	1.15	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
161	12975	25613	0.88	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
162	12976	25614	5.4	0.0E+00	W73973.1	EST_HUMAN	z612b05.1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:345201 5' similar to gb:X16282_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
163	12977	25615	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
163	12977	25616	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
164	12978	25617	1.42	0.0E+00	AF244088.1	NT	Homo sapiens zinc finger protein mRNA, complete cds
167	12981	25620	28.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
167	12981	25621	28.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
176	12988	25627	5.95	0.0E+00	BE018970.1	EST_HUMAN	b624e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z
176	12988	25628	5.95	0.0E+00	BE018970.1	EST_HUMAN	b624e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z
181	12993	25631	3.05	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
181	12993	25632	3.05	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
188	13002	25643	67.77	0.0E+00	D50859.1	NT	Human gamma-cytoplasmic actin (ACTG8P8) pseudogene
194	13007	25648	3.74	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen ae14-3 mRNA, complete cds
194	13007	25649	3.74	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen ae14-3 mRNA, complete cds
198	13009	25651	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
198	13009	25652	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
205	15537	25658	9.26	0.0E+00	AI587308.1	EST_HUMAN	U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN I (HUMAN);
205	15537	25659	9.26	0.0E+00	AI587308.1	EST_HUMAN	U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN I (HUMAN);
207	13019	25661	3.08	0.0E+00	AF189698.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
209	13021		23.37	0.0E+00	4508632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
210	13022		4.72	0.0E+00	AF132000.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
214	13026	25664	9.19	0.0E+00	AB018284.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
215	13026	25664	8.34	0.0E+00	AB018284.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
216	13027	25665	3.5	0.0E+00	6978444	NT	Mus musculus testis-specific protein, Y-encoded-like (Tspyl) mRNA
229	13041	25678	1.23	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
229	13041	25679	1.23	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
231	13042	25682	3.97	0.0E+00	6453805	NT	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
233	13044		8.94	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
240	13049	25688	3.85	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
242	13051	25691	1.71	0.0E+00	X89772.1	NT	H. sapiens mRNA for interferon alpha/beta receptor (long form)
250	13059		9.14	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
263	13071	25710	1.88	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
263	13071	25711	1.68	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
265	13073	25713	3.07	0.0E+00	7708028	NT	Homo sapiens hypothetical protein (LOC51260), mRNA
276	13083		1.19	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
277	13084	25728	3.28	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
277	13084	25727	3.28	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
278	13085		0.78	0.0E+00	AW848293.1	EST_HUMAN	IL2-CT0031-181199-020-B03 CT0031 Homo sapiens cDNA
287	13083	25734	6.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
287	13083	25735	6.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
297	13103	25744	4.97	0.0E+00	AB0288942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
298	13104	25745	4.63	0.0E+00	AB0288942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
299	15540		4.23	0.0E+00	4506728	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
300	13105		3.76	0.0E+00	AA480002.1	EST_HUMAN	Homo sapiens ribosomal protein S5 (RPS5) mRNA
301	13108	25746	18.93	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
302	13108	25746	16.53	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
308	13110	25750	2.33	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
319	13122	25759	4.97	0.0E+00	7857213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
320	13122	25759	6.23	0.0E+00	7857213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
335	13136	25771	2.66	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLL T4) mRNA
338	13139	25773	1.71	0.0E+00	4827057	NT	Homo sapiens X-box binding protein 1 (XBP1) mRNA
341	13142	25780	1.45	0.0E+00	U71600.1	NT	Human zinc finger protein zfp31 (zfp31) mRNA, partial cds
346	13146	25784	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
346	13146	25785	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
347	15541	25786	3.84	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
349	13148	25788	2.33	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
352	13151	25792	0.94	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
353	13152	25793	4.1	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
364	13152	25793	1.9	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
366	13154	25795	1.89	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
367	13163	25806	1.07	0.0E+00	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
378	13203	25849	8.31	0.0E+00	AB0288942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
379	13204	25850	1.54	0.0E+00	AI363014.1	EST_HUMAN	q961h05.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gb.X54199 PHOSPHORIBOSYLAMINE-GLYCINE LIGASE (HUMAN);
383	13170	25813	1.83	0.0E+00	AW754180.1	EST_HUMAN	RC2-CT0320-300100-016-a09 CT0320 Homo sapiens cDNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
386	13172	25816	1.58	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25817	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25818	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
388	13174	25819	1.17	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
389	13175	25820	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
389	13175	25821	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
390	13176	25822	2.77	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
391	13177	25823	0.84	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
392	13178	25824	1.35	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
392	13178	25825	1.35	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-28
393	13178	25824	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-28
393	13178	25825	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-28
393	13178	25825	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-28
397	13182	25435	28.13	0.0E+00	4506608	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
411	12822	25435	1.5	0.0E+00	R17795.1	EST_HUMAN	Y09802.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31652.5'
419	13206	25851	1.31	0.0E+00	4503914	NT	Homo sapiens phosphoribosylhydrazide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylmethylidazole synthetase (GART) mRNA
420	13206	25851	3.18	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
421	13207	25852	3.93	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
422	13208	25853	5.45	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
422	13208	25854	5.45	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
423	13209	25855	4.02	0.0E+00	AF193607.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds
433	13219	25865	1.99	0.0E+00	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
438	13224		2.01	0.0E+00	AA324282.1	EST_HUMAN	EST27054 Cerebellum II Homo sapiens cDNA 5' end
439	13225		0.97	0.0E+00	BE254447.1	EST_HUMAN	601111520F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3362348.5'
455	13241	25879	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
455	13241	25880	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
461	13246	25888	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
461	13246	25889	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
471	13257	25895	2.64	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
472	13258	25896	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
472	13258	25897	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
481	13266	25902	3.46	0.0E+00	AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
483	13268	25904	1.97	0.0E+00	AU132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4000837.5'
491	13276	25910	2.66	0.0E+00	BE385144.1	EST_HUMAN	601274951F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615758.5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
492	15543	25911	1.11	0.0E+00	AW938825.1	EST_HUMAN	PMO-DT0065-130400-002-c08 DT0065 Homo sapiens cDNA
494	13278	25913	1.33	0.0E+00	AL117233.1	NT	Novel human gene mapping to chromosome 1
495	13279	25914	1.27	0.0E+00	8923865	NT	Homo sapiens PC328 protein (PC328), mRNA
499	13283		0.77	0.0E+00	BF373403.1	EST_HUMAN	IL2-FT0159-070800-120-F07 FT0159 Homo sapiens cDNA
506	13290	25924	5.37	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
513	15544	25928	1.29	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0635-160400-142-H05 BT0635 Homo sapiens cDNA
518	13302	25934	1.14	0.0E+00	BF028005.1	EST_HUMAN	801794858F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3896988 5'
624	13308	25941	1.68	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
527	13311	25944	27.88	0.0E+00	6006030	NT	Homo sapiens transcription elongation factor B (SIII), polypeptide 1-like (TCB1L) mRNA
528	13312	25945	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
528	13312	25946	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
530	13314	25948	0.97	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
530	13314	25949	0.97	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
535	13318		5.82	0.0E+00	AF003528.1	NT	Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
543	13326	25958	1.89	0.0E+00	AW135324.1	EST_HUMAN	U1-HB11-ecb-h-04-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2713951 3'
553	13336		8	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
572	13353	25982	2.63	0.0E+00	5174742	NT	Homo sapiens ubiquitin-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRC1), nuclear gene encoding mitochondrial protein, mRNA
585	13365		7	0.0E+00	J04086.1	NT	Human apolipoprotein A-I (ApoA-I) gene, exon 1
588	13368	25986	1.83	0.0E+00	BF104898.1	EST_HUMAN	601822627F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'
590	13370	25998	0.98	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
590	13370	25999	0.98	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
596	13373	26002	0.76	0.0E+00	4501854	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
600	13378	26008	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
600	13378	26009	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
609	13387	26018	3.18	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
612	13390	26021	1.2	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26022	3.83	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26023	3.83	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26024	0.92	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26025	0.92	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
620	13398	26034	1.35	0.0E+00	AA399486.1	EST_HUMAN	z60-c07.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726732 5'
624	13403	26038	10.1	0.0E+00	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
628	13407	26041	0.76	0.0E+00	W78811.1	EST_HUMAN	zh51b04.r1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
628	13407	26042	0.76	0.0E+00	W78811.1	EST_HUMAN	zh51b04.r1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
631	13410		4.99	0.0E+00	4885528	NT	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA
638	13417	26054	2.88	0.0E+00	6006003	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B) mRNA
640	13419	26057	1.17	0.0E+00	5031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA
643	13422	26061	2.53	0.0E+00	U05235.1	NT	Human neutral amino acid transporter (ASCT1) gene, exon 8
647	13426	26064	1.07	0.0E+00	AF108388.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
647	13426	26066	1.07	0.0E+00	AF108388.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
653	13431	26070	4.98	0.0E+00	4828947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
653	13431	26071	4.98	0.0E+00	4828947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
659	15547		1.16	0.0E+00	X57147.1	NT	Human endogenous retrovirus PHE.1 (ERV9)
667	13443	26084	10.4	0.0E+00	4504424	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA
672	13448	26088	4.49	0.0E+00	AB028012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
681	13456	26101	2.43	0.0E+00	7857468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
683	13468	26115	9.24	0.0E+00	AA614537.1	EST_HUMAN	np49d01.s1 NCI CGAP Br.1.1 Homo sapiens cDNA clone IMAGE:1129633 3' similar to gb:X57352 INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);
696	13471	26119	4.34	0.0E+00	M60875.1	NT	Human von Willebrand factor gene, exons 23 through 34
698	13471	26120	4.34	0.0E+00	M60875.1	NT	Human von Willebrand factor gene, exons 23 through 34
708	13481	26129	1.71	0.0E+00	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
712	13486	26135	4.95	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
712	13486	26136	4.95	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
714	13488	26139	12.29	0.0E+00	11545900	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
719	13493	26146	2.12	0.0E+00	BE241577.1	EST_HUMAN	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0779
739	13512	26170	1.07	0.0E+00	AF226990.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
739	13512	26171	1.07	0.0E+00	AF226990.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
740	13513	26172	2.41	0.0E+00	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
743	13516	26175	1.07	0.0E+00	J03784.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
743	13516	26176	1.07	0.0E+00	J03784.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
746	13519	26177	1.38	0.0E+00	6912749	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
748	15551	26179	1.86	0.0E+00	D30612.1	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
749	13521	26180	3.01	0.0E+00	BE869735.1	EST_HUMAN	Homo sapiens mRNA for repressor protein, partial cds
749	13521	26180	3.01	0.0E+00	BE869735.1	EST_HUMAN	801445647F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
762	13524	26183	3.51	0.0E+00	R49915.1	EST_HUMAN	yf6g08.r1 Source breast 2NBIBst Homo sapiens cDNA clone IMAGE:154048 5'
763	13525	26184	2.4	0.0E+00	5032086	NT	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA
761	13533	26182	2.07	0.0E+00	AB011309.1	NT	Homo sapiens gene for AF-6, complete cds
764	13537	26186	2.34	0.0E+00	7661985	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
775	13547	26208	1.18	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
775	13547	26209	1.18	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
780	13552	26213	2.13	0.0E+00	X80772.1	NT	H. sapiens mRNA for Interferon alpha/beta receptor (long form)
784	13556	26217	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
784	13556	26218	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
788	13560	26222	9.88	0.0E+00	AB020717.1	NT	Homo sapiens pericentriin (PCNT) mRNA
789	13561		11.63	0.0E+00	5174478	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
805	13577	26242	1.96	0.0E+00	4507500	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
806	13578	26243	4.28	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
808	13580	26245	2.81	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
814	13585	26251	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
814	13585	26252	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
819	13590	26257	1.98	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
823	13593	26262	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
823	13593	26263	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
830	13600		1.32	0.0E+00	AF027153.1	NT	Homo sapiens sodium/myo-inositol cotransporter (SLC5A3) gene, complete cds
834	13604	26274	4.62	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
834	13604	26275	4.62	0.0E+00	AB028942.1	NT	Homo sapiens SON DNA binding protein (SON) mRNA
835	13605	26276	9.56	0.0E+00		NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
836	13606	26277	4.34	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
837	13607	26278	0.8	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
841	13611	26281	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
841	13611	26282	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
842	13612	26283	2.46	0.0E+00	AA533272.1	EST_HUMAN	ij66407.s1 NCI_CGAP_P10 Homo sapiens cDNA clone IMAGE:997453
842	13612	26284	2.46	0.0E+00	AA533272.1	EST_HUMAN	ij66407.s1 NCI_CGAP_P10 Homo sapiens cDNA clone IMAGE:997453
843	13613		9.44	0.0E+00	BF677694.1	EST_HUMAN	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
847	13617	26285	1.94	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
847	13617	26286	1.94	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26287	3.31	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26288	3.31	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
871	13640	26311	0.91	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
878	13647	26316	2.57	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
878	13647	26317	2.57	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
888	13657	26326	6.48	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
898	13668		4.99	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
900	13668		8.49	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
901	13668	26332	1.21	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1-antitrypsin precursor, mRNA, partial cds
902	13669	26333	1.78	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (PI4) gene, exons 1-4, complete cds
906	13672	26336	1.05	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
905	13672	26337	1.05	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
926	13683	26356	2.98	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
931	13696	26362	2.98	0.0E+00	AB023211.1	NT	Homo sapiens mRNA for KIAA0894 protein, partial cds
932	13699	26363	1.19	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
933	13700	26364	9.95	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
934	13701	26365	0.9	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
934	13701	26366	2.18	0.0E+00	4507430	NT	Homo sapiens thyroidal embryonic factor (TEF), mRNA
942	15558	26373	2.18	0.0E+00	4507430	NT	Homo sapiens thyroidal embryonic factor (TEF), mRNA
942	15558	26374	3.38	0.0E+00	A001948.1	EST_HUMAN	os98e03.s1 NCL CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404.3'
943	13709	26375	3.38	0.0E+00	A001948.1	EST_HUMAN	os98e03.s1 NCL CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404.3'
964	13719	26385	9.49	0.0E+00	7657266	NT	Homo sapiens KIAA0929 protein Mac2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
962	13727	26391	3.18	0.0E+00	AB030593.1	NT	Homo sapiens mRNA for PSP24, complete cds
962	13727	26392	1.11	0.0E+00	BF368974.1	EST_HUMAN	PM2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
962	13727	26393	1.11	0.0E+00	BF368974.1	EST_HUMAN	PM2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
963	13728	26394	1.11	0.0E+00	BF368974.1	EST_HUMAN	PM2-GN0014-050900-001-402 GN0014 Homo sapiens cDNA
963	13728	26395	1.89	0.0E+00	X62207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
972	13737	26402	1.89	0.0E+00	X62207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
984	13748	26410	2.03	0.0E+00	4757989	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
985	13749	26411	1.86	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
986	13749	26411	50.9	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
986	13749	26411	25.17	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
989	13752		5.52	0.0E+00	AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
990	13752		8.84	0.0E+00	AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
993	13755	26416	1.17	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
994	13755	26416	1.83	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
995	13755	26416	2.3	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
996	13756	26417	3.76	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
999	13759	26420	3.06	0.0E+00	7061885	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1003	13763	26424	2.5	0.0E+00	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (IMMT), mRNA
1004	13764		1.43	0.0E+00	AA458680.1	EST_HUMAN	Homo sapiens fetal retina 937202 Homo sapiens cDNA clone IMAGE:838236 3' similar to SW:PRS8_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8:
1007	13767	26428	1.9	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1007	13767	26429	1.9	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1010	13770		3.55	0.0E+00	8922833	NT	Homo sapiens hypothetical protein FLJ111196 (FLJ11196), mRNA
1025	13785	26445	2.49	0.0E+00	4758669	NT	Homo sapiens heat shock 70kD protein 98 (hsc70) (HSPA9B), mRNA
1043	13802	26480	1.89	0.0E+00	4828672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6), mRNA
1043	13802	26481	1.89	0.0E+00	4828672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6), mRNA
1047	13806	26485	3.63	0.0E+00	89233624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1047	13806	26486	3.63	0.0E+00	89233624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1048	13807	26467	119.02	0.0E+00	AJ245022.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
1050	13808		1.19	0.0E+00	89233687	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1052	13811	26471	3.52	0.0E+00	5174394	NT	Homo sapiens alkylated repair, alkB homolog (ABH), mRNA
1060	13818	26480	2.3	0.0E+00	4758117	NT	Homo sapiens Death associated protein 3 (DAP3), mRNA
1074	13832	26490	2.2	0.0E+00	BE005208.1	EST_HUMAN	MR0-BN0115-200300-003108 BN0115 Homo sapiens cDNA
1097	13855	26514	6.04	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1097	13855	26515	6.04	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1110	13867	26525	0.9	0.0E+00	4828947	NT	Homo sapiens protein kinase, X-linked (PRICK), mRNA
1110	13867	26526	0.9	0.0E+00	4828947	NT	Homo sapiens protein kinase, X-linked (PRICK), mRNA
1111	13868	26527	4.27	0.0E+00	4506712	NT	Homo sapiens ribosomal protein S27a (RPS27A), mRNA
1113	13870	26529	0.96	0.0E+00	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1118	13873	26532	23.77	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1118	13875	26533	44.3	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1119	13876	26534	5.51	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1119	13876	26535	5.51	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1122	13878	26537	1.1	0.0E+00	7706500	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51728), mRNA
1123	13879	26538	0.87	0.0E+00	X95828.1	NT	H. sapiens ART4 gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No:	Top Hit Database Source	Top Hit Descriptor
1123	13879	26539	0.87	0.0E+00	X95826.1	NT	H.sapiens ART4 gene
1124	13880	26540	0.92	0.0E+00	AI147650.1	EST_HUMAN	qb22d10.x1 Soares_pregnant_uterus_Nb-HPU Homo sapiens cDNA clone IMAGE:1697011 3'
1126	13882	26542	1.56	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1133	13889	26548	0.71	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1133	13889	26549	0.71	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1134	13890	26550	1.39	0.0E+00	9968844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
1145	13900	26561	6.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1145	13900	26562	6.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1148	13903	26565	1.85	0.0E+00	AB037835.1	NT	Homo sapiens keratin 18 (KRT18) mRNA
1155	13910	26574	0.76	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1167	13921	26583	4.54	0.0E+00	AF034996.1	NT	Homo sapiens amphiphysin 1 mRNA, alternative splice isoform, complete cds
1187	13939	26617	1.82	0.0E+00	7657336	NT	Homo sapiens mull. (E. coli) homolog 3 (MLH3), mRNA
1201	13953	26617	1.7	0.0E+00	8922863	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
1204	13956	26620	1.63	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1204	13956	26621	1.53	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1205	13957	26622	1.77	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1206	15562	26623	1.63	0.0E+00	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1224	13974	26646	9.12	0.0E+00	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
1225	13975	26647	1.71	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1243	13992	26667	2.33	0.0E+00	Y18000.1	NT	Homo sapiens NF2 gene
1251	14000	26667	23.59	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1258	14007	26676	3.07	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
1265	14014	26681	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1266	14014	26682	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1277	14027	26695	2.04	0.0E+00	5174748	NT	Homo sapiens Wdrifam syndrome (WFS) mRNA
1277	14027	26696	2.04	0.0E+00	5174748	NT	Homo sapiens Wdrifam syndrome (WFS) mRNA
1277	14027	26697	2.04	0.0E+00	5174748	NT	Homo sapiens Wdrifam syndrome (WFS) mRNA
1278	14028	26709	3.78	0.0E+00	AF086166.1	NT	Homo sapiens Wdrifam syndrome (WFS) mRNA
1288	15564	26709	1.63	0.0E+00	7657529	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1288	15564	26710	1.63	0.0E+00	7657529	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1293	14042	26715	2.03	0.0E+00	5803148	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1294	14043	26716	0.89	0.0E+00	4508004	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1296	14045	26717	1.12	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1297	14046	26718	0.72	0.0E+00	4508004	NT	Homo sapiens ring finger protein 173 (ZNF173) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1299	14048	26720	4.71	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1300	14048	26721	2.04	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1301	14050	26722	5.88	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1302	14051	26723	3.01	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1302	14051	26724	3.01	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1314	14062	26737	1.82	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
1387	14134	26809	1.38	0.0E+00	AJ250014.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyd gene
1393	14140	26817	3.39	0.0E+00	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
1398	14143	26821	1.59	0.0E+00	AI208756.1	EST_HUMAN	qg38b06.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837427 3' similar to W.P.T27A1.5 CE14213;
1397	14144	26822	13.21	0.0E+00	6042208	NT	RAN, member RAS oncogene family-Homo sapiens RAN, member RAS oncogene family (RAN), mRNA
1406	14153	26833	5	0.0E+00	4505846	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1406	14153	26834	5	0.0E+00	4505846	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1408	14155	26837	4.08	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1408	14155	26838	4.08	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1410	14157	26839	4.59	0.0E+00	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1420	14168	26852	3.02	0.0E+00	AF038280.1	NT	Homo sapiens alpha1-6fucosyltransferase (alpha1-6FucT) gene, exon 7
1431	14178	26863	5.39	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1431	14178	26864	5.39	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1436	14183	26868	17.93	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1436	14183	26869	17.93	0.0E+00	U35637.1	NT	Human nebulin mRNA, partial cds
1446	14193	26876	2.59	0.0E+00	AL132899.1	NT	Novel human gene on chromosome 20
1447	14194	26877	1.82	0.0E+00	AL137784.1	NT	Novel human gene mapping to chromosome 1
1451	14188	26882	1.73	0.0E+00	D87077.1	NT	Human mRNA for KIAA0240 gene, partial cds
1454	14201	26885	4.53	0.0E+00	6012457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1456	14203	26887	1.55	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1456	14203	26888	1.55	0.0E+00	7681965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1460	14207	26893	0.97	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1460	14207	26894	0.97	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1500	14246	26932	1.37	0.0E+00	7706434	NT	Homo sapiens HHD for homolog of Drosophila headcase (LOC51896), mRNA
1516	14263	26949	1.21	0.0E+00	AW059687.1	EST_HUMAN	EST371767 MAGE resequences, MAGF Homo sapiens cDNA
1517	14264	26950	1.76	0.0E+00	AA481172.1	EST_HUMAN	aa34a03.r1 NCJ_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815116 5'
1522	14269	26953	49.82	0.0E+00	AF023890.1	NT	Carpodacus aethiops cyclophilin A mRNA, complete cds

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1522	14269	26954	49.82	0.0E+00	AF023860.1	NT	Cerophilic aethiops cyclophilin A mRNA, complete cds
1524	14271	26957	1.24	0.0E+00	AW978097.1	EST_HUMAN	EST388206 MAGIE resequences, MAGN Homo sapiens cDNA
1524	14271	26958	1.24	0.0E+00	AW978097.1	EST_HUMAN	EST388206 MAGIE resequences, MAGN Homo sapiens cDNA
1525	14272	26959	5.49	0.0E+00	D10884.1	NT	Bovine mRNA for neurocabin
1527	14274		2.07	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1528	14275	26962	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1530	14277	26963	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1531	14278	26965	3.3	0.0E+00	7652405	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
1537	14284	26971	7.29	0.0E+00	7658872	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
1540	14287	26973	1.84	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1540	14287	26974	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1541	15572		3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1542	14288	26975	11.72	0.0E+00	4506854	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
1553	14300	26988	2.86	0.0E+00	4507720	NT	Human laminin receptor (2H5 epitope) mRNA, 5' end
1553	14300	26989	2.86	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1555	14302	26990	11.7	0.0E+00	4503098	NT	Homo sapiens titin (TTN) mRNA
1563	14310		1.21	0.0E+00	D00333.1	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1574	14321	27007	1.65	0.0E+00	Z83738.1	NT	human c-yes-2 gene
1575	14322	27008	1.59	0.0E+00		NT	H. sapiens HH2B/e gene
1575	14322	27009	1.59	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1576	14323	27010	11.18	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1576	14323	27011	11.18	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKG Homo sapiens cDNA clone GKCB0F02 5'
1579	15573	27014	9.85	0.0E+00	AB040605.1	EST_HUMAN	AV690831 GKG Homo sapiens cDNA clone GKCB0F02 5'
1583	14329	27015	1.83	0.0E+00	AF157476.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1585	14331	27018	9.78	0.0E+00	7662183	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1585	14331	27019	9.78	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1587	14333	27020	42.76	0.0E+00	5729876	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1587	14333	27021	42.75	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1589	14335	27023	7.94	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1604	14360	27039	5.85	0.0E+00	M91803.1	NT	Human sodium channel mRNA
1614	14361	27051	2	0.0E+00	H26973.1	EST_HUMAN	yo76c05.s1 Soares adult brain N2B4HB55Y Homo sapiens cDNA clone IMAGE:183848 3'
1614	14361	27052	2	0.0E+00	AB046828.1	NT	Homo sapiens mRNA for KIAA1809 protein, partial cds
1614	14361	27052	2	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1809 protein, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1659	14405	27095	1.25	0.0E+00	BE144394.1	EST_HUMAN	MR0-HT0168-191199-004-b11 HT0168 Homo sapiens cDNA
1659	14405	27096	1.25	0.0E+00	BE144394.1	EST_HUMAN	MR0-HT0168-191199-004-b11 HT0168 Homo sapiens cDNA
1663	14409	27100	1.68	0.0E+00	AI768104.1	EST_HUMAN	wg81b07.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2371477 3' similar to TR:Q62788 Q62788 CYS2/HIS2 ZINC FINGER PROTEIN.;
1664	14410	27101	1.2	0.0E+00	4758513	NT	Homo sapiens hematopoietic-derived zinc finger protein (HD-ZNF1) mRNA
1665	14411	27102	2.61	0.0E+00	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1669	14414	27106	1.78	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1669	14414	27107	1.78	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1671	14416	27109	1.35	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1672	14417	27110	1.6	0.0E+00	7657066	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG) mRNA
1675	14420	27113	1.12	0.0E+00	BE222374.1	EST_HUMAN	MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1675	14420	27114	1.12	0.0E+00	BE222374.1	EST_HUMAN	hu11005.x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:O95147 O95147
1677	14421	27116	3.24	0.0E+00	4557610	NT	MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1680	14424	27119	3.18	0.0E+00	H30132.1	EST_HUMAN	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1680	14424	27120	3.18	0.0E+00	H30132.1	EST_HUMAN	yo59e08.r1 Soares breast 3NHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099
1682	14426	27122	1.32	0.0E+00	Z80780.1	NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1682	14426	27123	1.32	0.0E+00	Z80780.1	NT	yo59e08.r1 Soares breast 3NHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099
1685	14429		13.71	0.0E+00		NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1683	14437	27133	1.11	0.0E+00	5031748	NT	H. sapiens H2B/h gene
1695	14438	27136	3.53	0.0E+00	AF168963.1	NT	Homo sapiens Hgt-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1702	14445	27145	1.11	0.0E+00	8923841	NT	Homo sapiens WNT16 protein (WNT16) mRNA, complete cds
1708	14461	27162	4.08	0.0E+00	4826873	NT	Homo sapiens FOXJ2 forkhead factor (LOC55810), mRNA
1710	14463		2.19	0.0E+00	AB028542.1	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1) mRNA
1725	15577	27167	1.16	0.0E+00	S94400.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
1739	14481	27181	1.93	0.0E+00	11545911	NT	TOR zeta [human, Genomic] mRNA, 385 nt, segment 1 of 8]
1778	15578		6.86	0.0E+00	AF273841.1	NT	Homo sapiens NOD2 protein (NOD2), mRNA
1782	14523	27228	3.37	0.0E+00	4508718	NT	Homo sapiens SMCY (SMCY) gene, complete cds
1782	14523	27229	3.37	0.0E+00	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1784	14525	27232	1.42	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1787	14528		1.2	0.0E+00	U63963.1	EST_HUMAN	Homo sapiens E1A binding protein p300 (EP300) mRNA
					W76571.1	EST_HUMAN	Human CSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds
							zdb6609.r1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:345664 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1788	14579	27238	2.74	0.0E+00	4505332	NT	Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NASP) mRNA
1800	14540	27251	5.68	0.0E+00	U14967.1	NT	Human ribosomal protein L21 mRNA, complete cds
1802	14542	27254	2.79	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
1803	14543	27255	4.07	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B87) (ATF4) mRNA
1803	14543	27258	4.07	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B07) (ATF4) mRNA
1803	14543	27257	4.07	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1812	14552	27268	1.63	0.0E+00	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
1826	14565	27278	5.82	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1828	14585	27277	5.82	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1836	14575	27287	1.12	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1836	14575	27288	1.12	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1840	14578	27290	4.35	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1840	14578	27291	4.35	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1841	14579	27292	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1841	14579	27293	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1844	14582	27296	1.46	0.0E+00	AW207280.1	EST_HUMAN	UI-H-B11-afn-f07-q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1844	14582	27297	1.46	0.0E+00	AW207280.1	EST_HUMAN	UI-H-B11-afn-f07-q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1888	14608	27316	3.49	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3547239 5'
1888	14608	27317	3.49	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3547239 5'
1887	14624	27334	0.93	0.0E+00	BE006292.1	EST_HUMAN	RC2-BN0128-200300-012-b04 BN0126 Homo sapiens cDNA
1916	14653	27362	2.16	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1916	14653	27363	2.16	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1924	14661		1.22	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1925	15682	27372	1.19	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1925	15682	27373	1.19	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1930	14666	27380	1.53	0.0E+00	4507484	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1930	14666	27381	1.53	0.0E+00	4507484	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1933	14668	27383	1.42	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1935	14670		4.27	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1940	14675		1.35	0.0E+00	M55632.1	NT	Human topoisomerase I pseudogene 1
1949	14684	27396	1.94	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1949	14684	27397	1.84	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1959	14695		1.15	0.0E+00	AL163262.2	NT	Homo sapiens chromosome 21 segment HS21C052
1961	14697	27410	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1961	14697	27411	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1962	14698	27412	2.49	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1962	14698	27413	2.49	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1973	14709	27427	1.36	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1973	14709	27428	1.36	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1979	14715	27432	1.69	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1979	14715	27433	1.69	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1981	14717	27434	1.57	0.0E+00	AW193024.1	EST_HUMAN	x68601.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2678913 3'
1981	14717	27435	1.57	0.0E+00	AW193024.1	EST_HUMAN	x68601.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2678913 3'
1982	14718	27436	5.96	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1982	14718	27437	5.96	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1984	14720	27439	2	0.0E+00	7682095	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1985	14721	27440	1.19	0.0E+00	AB011149.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1986	14722	27441	1.58	0.0E+00	Z47558.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1986	14722	27442	1.58	0.0E+00	Z47558.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1983	14728	27451	3.75	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
2014	14749	27476	1.02	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2014	14749	27477	1.02	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2040	14779	27507	1.64	0.0E+00	7706742	NT	Homo sapiens TP53TG3a (TP53TG3a), mRNA
2052	14785	27511	4.13	0.0E+00	AU140831.1	EST_HUMAN	AU140831 PLACE4 Homo sapiens cDNA clone PLACE4000321 5'
2053	14165	26837	1.55	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2053	14165	26838	1.55	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2055	14787	27513	2.04	0.0E+00	AA077689.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2055	14787	27514	2.04	0.0E+00	AA077689.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2057	14789		2.41	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2059	14791		1.91	0.0E+00	4585963	NT	Homo sapiens phosphodiesterase 9A, cGMP-specific, rod, alpha (PDE9A), mRNA
2060	14792	27517	0.97	0.0E+00	Z42399.1	EST_HUMAN	HSC01C021 normalized infant brain cDNA Homo sapiens cDNA clone c-01c02

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2062	14794		1.78	0.0E+00	A1244247.1	EST_HUMAN	q96088.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:1988871 3' similar to contains Alu repetitive element;
2067	14799	27526	3.46	0.0E+00	BE877225.1	EST_HUMAN	601485146F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 5'
2069	14801	27528	1.48	0.0E+00	BF316325.1	EST_HUMAN	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2069	14801	27529	1.48	0.0E+00	BF316325.1	EST_HUMAN	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2072	14804	27532	3.07	0.0E+00	BE897125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2072	14804	27533	3.07	0.0E+00	BE897125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2080	14812	27544	3.71	0.0E+00	LO0620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2080	14812	27545	3.71	0.0E+00	LO0620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2085	14817	27549	1.36	0.0E+00	4758489	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2107	14838		2.08	0.0E+00	BE767964.1	EST_HUMAN	QV1-GN0065-140800-318-c10 GN0065 Homo sapiens cDNA
2108	14839		1.59	0.0E+00	AF018983.1	NT	Homo sapiens X-linked juvenile retinoschisis protein (XLRIS1) gene, exon 6 and complete cds
2110	14841	27572	3.76	0.0E+00	BF027562.1	EST_HUMAN	601872066F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954786 5'
2111	14842	27573	1.03	0.0E+00	BE027624.1	EST_HUMAN	PMO-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA
2113	14844	27574	1.06	0.0E+00	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2116	14847	27576	1.3	0.0E+00	AW752708.1	EST_HUMAN	IL3-CT0219-271099-022-G10 CT0219 Homo sapiens cDNA
2117	14848	27577	1.47	0.0E+00	L76627.1	NT	Homo sapiens metabotropic glutamate receptor 1 alpha (mGluR1alpha) mRNA, complete cds
2119	14850	27579	6.39	0.0E+00	A1904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2119	14850	27580	6.39	0.0E+00	A1904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2163	14883		1.05	0.0E+00	7857252	NT	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNMB3L), mRNA
2179	14908		1.22	0.0E+00	L14787.1	NT	Human DNA-binding protein mRNA, 3' end
2183	14912	27644	1.05	0.0E+00	BE274998.1	EST_HUMAN	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346688 5'
2185	14914	27647	7.59	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBINBOE08 5'
2185	14914	27648	7.59	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBINBOE08 5'
2187	14916	27650	1.4	0.0E+00	AA931691.1	EST_HUMAN	cc32a01.at NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1567866 3'
2191	14920	27654	5.68	0.0E+00	BF344434.1	EST_HUMAN	602014829F1 NCI_CGAP_Bn64 Homo sapiens cDNA clone IMAGE:4150734 5'
2192	14921	27655	12.14	0.0E+00	BE748999.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
2196	14925	27659	3.55	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2196	14925	27660	3.55	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2200	15588	27665	2.04	0.0E+00	BF313617.1	EST_HUMAN	601900261F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129622 5'
2203	14931	27668	1.93	0.0E+00	BE018750.1	EST_HUMAN	b584e02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
2204	14932	27669	1.55	0.0E+00	AA042813.1	EST_HUMAN	zK53c07.s1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X85857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2204	14932	27670	1.55	0.0E+00	AA042813.1	EST_HUMAN	zK53c07.s1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X85857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2212	14940	27678	3.37	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2212	14940	27679	3.37	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2213	14941	27680	2.3	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2213	14941	27681	2.3	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2218	14946		1.37	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 18
2236	14964	27704	5.71	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2243	14971	27709	2.03	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2250	14978	27717	1.71	0.0E+00	BE995281.1	EST_HUMAN	601433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918607 5'
2253	14981	27720	1.27	0.0E+00	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2253	14981	27721	1.27	0.0E+00	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2256	14983	27723	2.35	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
2299	15024	27759	4.02	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2299	15024	27760	4.02	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 8 (DEF6), mRNA
2300	15025	27761	1.87	0.0E+00	AI078404.1	EST_HUMAN	cd08c07.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2302	15027	27763	2.33	0.0E+00	AA429001.1	EST_HUMAN	z178a11.1 Soares_total_fetus_Nb2-IF8_0w Homo sapiens cDNA clone IMAGE:756740 5'
2302	15027	27764	2.33	0.0E+00	AA429001.1	EST_HUMAN	z178a11.1 Soares_total_fetus_Nb2-IF8_0w Homo sapiens cDNA clone IMAGE:756740 5'
2304	15029	27766	1.75	0.0E+00	BF347039.1	EST_HUMAN	602021846F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4157339 5'
2309	15034	27772	1.52	0.0E+00	L02840.1	NT	Homo sapiens potassium channel Kv2.1 mRNA, complete cds
2310	15035	27773	1.61	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2310	15035	27774	1.61	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2311	15036	27775	1.39	0.0E+00	6325468	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2317	15042	27780	1.17	0.0E+00	BE876095.1	EST_HUMAN	7122a02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3285370 3' similar to TR:094939 094939 KIAA0857 PROTEIN
2320	15045	27782	4.73	0.0E+00	AF044571.1	NT	Homo sapiens phosphotyrosine kinase alpha subunit (PHKA2) gene, exon 32
2321	15046	27783	1.9	0.0E+00	AI625942.1	EST_HUMAN	y57c08.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2283182 3'
2325	15050	27785	1.88	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2325	15050	27786	1.88	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2328	15053	27789	1.95	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2328	15053	27790	1.95	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2334	15058	27793	1.24	0.0E+00	7662007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2334	15058	27794	1.24	0.0E+00	7682007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
2348	15071	27807	3.2	0.0E+00	6174878	NT	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA
2352	15074	27811	2.39	0.0E+00	AU131142.1	EST_HUMAN	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002084 5'
2353	15075		4.31	0.0E+00	BE794026.1	EST_HUMAN	601588943F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941003 5'
2354	15076	27812	1.51	0.0E+00	AW867076.1	EST_HUMAN	MR1-SN0033-120400-002-04 SN0033 Homo sapiens cDNA
2355	15077	27813	2.99	0.0E+00	7682017	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2356	15078	27814	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2358	15078	27815	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2357	15079		5.25	0.0E+00	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
2359	15081	27817	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27818	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27819	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2360	15082	27820	0.98	0.0E+00	8923089	NT	Homo sapiens hypothetical protein FLJ20081 (FLJ20081), mRNA
2377	15099		0.91	0.0E+00	BE814424.1	EST_HUMAN	MR0-BN0070-090600-029-d12 BN0070 Homo sapiens cDNA
2415	15136	27872	1.06	0.0E+00	AU119582.1	EST_HUMAN	AU119582 HEMBA1 Homo sapiens cDNA clone HEMBA1006155 5'
2416	15137		3.74	0.0E+00	AJ042035.1	EST_HUMAN	060b02.x1 Soeae_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1660883 3' similar to TR:008662
2417	15138	27873	0.98	0.0E+00	8923620	NT	O08662 230KDA PHOSPHATIDYLINOSITOL 4-KINASE
2420	15141		4.44	0.0E+00	BE895605.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20893 (FLJ20893), mRNA
2424	15145	27878	1	0.0E+00	BE837632.1	EST_HUMAN	601432808F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918186 5'
2433	15154		0.98	0.0E+00	AB005622.1	EST_HUMAN	MR1-TN0021-280800-001-h08 TN0021 Homo sapiens cDNA
2437	15157	27892	4.5	0.0E+00	6006002	NT	AB005622 HeLa cDNA (T.Nome) Homo sapiens cDNA similar to adenylate kinase isozyme 2
2441	15160	27896	2.09	0.0E+00	D85906.1	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
2441	15160	27897	2.09	0.0E+00	D85906.1	NT	Homo sapiens gene for cholecystikinin type-A receptor, complete cds
2449	15168	27906	1.91	0.0E+00	AF106275.1	NT	Homo sapiens gene for cholecystikinin type-A receptor, complete cds
2454	15172	27911	1.22	0.0E+00	BF345274.1	EST_HUMAN	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2461	15179	27919	4.45	0.0E+00	5728777	NT	602018058F1 NCI_CGAP_Brn07 Homo sapiens cDNA clone IMAGE:4153670 5'
2465	15183	27922	1.24	0.0E+00	BE831003.1	EST_HUMAN	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2465	15183	27923	1.24	0.0E+00	BE831003.1	EST_HUMAN	CMD-MT0033-150800-428-h11 MT0033 Homo sapiens cDNA
2470	15188	27927	0.93	0.0E+00	U13966.1	NT	CMD-MT0033-150800-428-h11 MT0033 Homo sapiens cDNA
2470	15188	27928	0.93	0.0E+00	U13966.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2471	15189	27929	2.98	0.0E+00	BF569144.1	EST_HUMAN	Human G protein-coupled receptor (GPR1) gene, complete cds
2471	15189	27929	2.98	0.0E+00	BF569144.1	EST_HUMAN	602184558T1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300383 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2482	15200	27940	3.34	0.0E+00	AW466922.1	EST_HUMAN	h04h04.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'
2484	15202	27941	2.99	0.0E+00	AW501010.1	EST_HUMAN	UI-HF-BP0p-als-o-07-0-J1.r1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072780 5'
2498	15215	27958	0.91	0.0E+00	5453905	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
2498	15215	27959	0.91	0.0E+00	5453905	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
2509	15226		1.68	0.0E+00	AW813853.1	EST_HUMAN	RC3-ST0197-300300-018-c04.S10197 Homo sapiens cDNA
2514	15231	27971	5.22	0.0E+00	BE796642.1	EST_HUMAN	601592530F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946518 5'
2515	14668	27963	1.4	0.0E+00	7857038	NT	Homo sapiens death receptor 8 (DR8), mRNA
2516	15232	27972	1.48	0.0E+00	BF509482.1	EST_HUMAN	UI-H-B14-acz-b-08-0-J1.s1 NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086535 3'
2518	15234	27974	1.83	0.0E+00	Z32684.2	NT	Homo sapiens mRNA for membrane transport protein (XK gene)
2520	15236		3.28	0.0E+00	5463871	NT	Homo sapiens platelet-derived growth factor receptor-like (PDGFR) mRNA
2522	15238	27977	1.3	0.0E+00	BE910378.1	EST_HUMAN	601503350F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3905148 5'
2523	15239	27978	1.96	0.0E+00	7657488	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2524	15240	27979	2.01	0.0E+00	8923340	NT	Homo sapiens hypothetical protein FLJ20366 (FLJ20366), mRNA
2526	15241	27980	2.21	0.0E+00	U93239.1	NT	Human Sec62 (Sec62) mRNA, complete cds
2530	15246	27984	1.44	0.0E+00	BE886490.1	EST_HUMAN	601508211F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909868 5'
2534	15249	27989	5.16	0.0E+00	BE876511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2534	15249	27990	6.16	0.0E+00	BE876511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2536	15251	27993	1.19	0.0E+00	AF245505.1	NT	Homo sapiens adicican mRNA, complete cds
2554	15269	28002	1.2	0.0E+00	BE536921.1	EST_HUMAN	601064738F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451161 5'
2561	15275	28012	2.97	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2561	15276	28013	2.97	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2562	15276	28014	1.8	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987955 5'
2562	15276	28015	1.8	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987955 5'
2563	15277	28016	1.07	0.0E+00	BF223041.1	EST_HUMAN	7q27h12.x1 NCL CGAP_GC8 Homo sapiens cDNA clone IMAGE:3' similar to TR:O00248 O00248
2566	15280	28018	7.94	0.0E+00	AF245505.1	NT	HYPOTHETICAL 9.3 KD PROTEIN ;
2589	15303	28039	2.22	0.0E+00	BE296613.1	EST_HUMAN	Homo sapiens adicican mRNA, complete cds
2606	15331	28060	2.13	0.0E+00	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2606	15331	28061	2.13	0.0E+00	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2607	15319		2.47	0.0E+00	BF513835.1	EST_HUMAN	UI-H-BW1-amp-f-12-0-J1.s1 NCL CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070631 3'
2611	15323	28065	1.36	0.0E+00	BF672818.1	EST_HUMAN	602152653F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4263612 6'
2615	15326	28069	1.83	0.0E+00	BF204131.1	EST_HUMAN	601869073F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111411 5'
2615	15326	28070	1.83	0.0E+00	BF204131.1	EST_HUMAN	601869073F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111411 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2618	15329	28072	2.08	0.0E+00	A1571737.1	EST_HUMAN	h1808.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2168055 3' similar to gb:L20877 CALCIUM-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN ISOFORM 2 (HUMAN); Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF21) mRNA
2619	15330	28073	2.19	0.0E+00	5032150	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2621	15333	28077	4.95	0.0E+00	AB037959.1	NT	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2622	15334	28078	1.02	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2622	15334	28079	1.02	0.0E+00	BE795445.1	EST_HUMAN	601143722F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051389 5'
2625	15337	28080	2.55	0.0E+00	BE283328.1	EST_HUMAN	601584930F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939222 5'
2632	15344		4.92	0.0E+00	BE792472.1	EST_HUMAN	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
2841	15352	28098	1.51	0.0E+00	4504056	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and F1P3 (F1P3) genes, complete cds
2651	15361		1.27	0.0E+00	U78027.1	NT	Homo sapiens guanylate cyclase-activating protein 2 (GUCA1B) gene, exon 1
2652	15362	28103	6.55	0.0E+00	AF173227.1	NT	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001984 5'
2658	15368	28106	1.22	0.0E+00	AU133385.1	EST_HUMAN	Human bulbus pemphigoid antigen (BPAG1) mRNA, complete cds
2659	15369	28107	1.08	0.0E+00	M69225.1	NT	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2661	15371	28109	2.22	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2661	15371	28110	2.22	0.0E+00	AU130403.1	EST_HUMAN	RC1-OT0086-220300-011-407 OT0086 Homo sapiens cDNA
2663	15373	28112	1.71	0.0E+00	AW887015.1	EST_HUMAN	7h16h05.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316089 3'
2666	15376	28115	1.26	0.0E+00	BF000018.1	EST_HUMAN	601208714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'
2667	15377	28116	4.37	0.0E+00	BE363165.1	EST_HUMAN	601278373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610267 5'
2668	15378		2.57	0.0E+00	BE531263.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2725	15432		4.21	0.0E+00	AA316723.1	EST_HUMAN	601588625F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943591 5'
2726	15433	28169	5.57	0.0E+00	BE794884.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 5
2732	15439	28177	3.83	0.0E+00	U36253.1	NT	Homo sapiens neuroligin 1 (NRG1), transcript variant SMDF, mRNA
2733	15440	28178	1.33	0.0E+00	7686517	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL-1) gene, complete cds
2734	15441	28179	1.78	0.0E+00	AF110763.1	NT	Homo sapiens hG28K mRNA for GTP-binding protein like 1, complete cds
2736	15443	28181	1.27	0.0E+00	AB051826.1	NT	Homo sapiens hG28K mRNA for GTP-binding protein like 1, complete cds
2742	15448	28187	7.77	0.0E+00	BE796376.1	EST_HUMAN	601581981F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945983 5'
2745	15604	28191	3.48	0.0E+00	BE563433.1	EST_HUMAN	601335485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:36889564 5'
2746	15451		1.16	0.0E+00	AV721647.1	EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTB8YE08 5'
2748	15453	28194	2.25	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2748	15453	28195	2.25	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2749	15454	28196	1.21	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2749	15454	28197	1.21	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2750	15455	28198	2.5	0.0E+00	AF290195.1	NT	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2751	15456		13.80	0.0E+00	AV651068.1	EST_HUMAN	AV651068 GLC Homo sapiens cDNA clone GLCCLD07 3'
2752	15457	28199	3.13	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250800-439-b08 TN0141 Homo sapiens cDNA
2753	15457	28200	3.13	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250800-439-b08 TN0141 Homo sapiens cDNA
2756	15461	28203	33.8	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2758	15461	28204	33.8	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2760	15465	28209	2.98	0.0E+00	BE747193.1	EST_HUMAN	601680903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929472 5'
2771	15476		1.15	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2772	15477	28219	3.36	0.0E+00	BF514110.1	EST_HUMAN	U1H-BW1-arrw-e-07-Q.U1.s1 NCJ CGAP Sub7 Homo sapiens cDNA clone IMAGE:3071340 3'
2778	15483		0.99	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2784	15489	28227	2.1	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2784	15489	28228	2.1	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2785	15490	28229	4.67	0.0E+00	BF677694.1	EST_HUMAN	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
2791	15498	28237	1.75	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPR-T), mRNA
2794	15499	28239	13.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2794	15499	28240	13.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2796	15501		7.61	0.0E+00	AI879163.1	EST_HUMAN	au55d04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518663 5' similar to SW:R13A_HUMAN PA0429 60S RIBOSOMAL PROTEIN L13A ;
2799	15504	28245	5.41	0.0E+00	BF530691.1	EST_HUMAN	602071957F1 NCJ CGAP Bm67 Homo sapiens cDNA clone IMAGE:4214679 5'
2800	15505	28246	5.55	0.0E+00	BE872768.1	EST_HUMAN	601450912F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3854642 5'
2802	15507	28247	1.6	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2802	15507	28248	1.6	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2803	15508	28249	20.25	0.0E+00	BE300344.1	EST_HUMAN	600844794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806 5'
2803	15508	28250	20.25	0.0E+00	BE300344.1	EST_HUMAN	600844794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806 5'
2809	12895	25634	4.22	0.0E+00	S76830.1	NT	glycoprotein D=Duffy group antigen [human, blood, Genomic DNA, 3068 nt]
2812	15515		4.35	0.0E+00	AB033281.1	NT	Homo sapiens BTG2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2818	13491	26144	8.39	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2818	13491	26145	8.39	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2822	13776	26436	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2822	13776	26437	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2840	15608	28258	3.52	0.0E+00	X85980.1	NT	H. sapiens serine hydroxymethyltransferase pseudogene

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2841	15609		1.34	0.0E+00	AF068624.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds
2843	15611		1.22	0.0E+00	AB040900.1	NT	Homo sapiens mRNA for KIAA1527 protein, partial cds
2849	15617	28263	2.61	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2852	15620	28265	2.63	0.0E+00	M91803.1	NT	Human sodium channel mRNA
2854	15622	28267	1.94	0.0E+00	M80802.1	NT	Human AHNK nucleoprotein mRNA, 5' end
2857	15625	28269	1.29	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA
2857	15625	28270	1.29	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA
2859	15627		1.18	0.0E+00	XT3428.1	NT	H. sapiens lds gene for HLH type transcription factor
2860	15628		2.59	0.0E+00	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C008
2861	15629	28272	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28273	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28274	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2866	15633	28277	18.48	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2866	15633	28278	18.48	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2866	15636	28281	1.69	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2870	15637		7.2	0.0E+00	Y10658.1	NT	H. sapiens mRNA for nuclear DNA helicase II
2871	15638		1.42	0.0E+00	AF152303.1	NT	Homo sapiens protocadherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds
2872	15639	28282	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2872	15639	28283	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2882	15649	28292	2.36	0.0E+00	4507280	NT	Homo sapiens serine/threonine kinase 9 (STK9) mRNA
2885	15652	28296	1.06	0.0E+00	AL047599.1	EST_HUMAN	DKFZ566G0821_1 566 (synonym: huter) Homo sapiens cDNA clone DKFZ566G0821
2886	15653	28297	0.97	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2886	15653	28298	0.97	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2887	15654		2.96	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2890	15657	28300	5.46	0.0E+00	BE081806.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2890	15657	28301	5.46	0.0E+00	BE081806.1	EST_HUMAN	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA
2897	15664	28312	2.09	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
2897	15664	28313	2.09	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
2905	15671		4.18	0.0E+00	Y19210.1	NT	Homo sapiens Hbb gene for hair keratin, exons 1 to 9
2907	15673	28321	1.33	0.0E+00	4768279	NT	Homo sapiens EphA4 (EPHA4) mRNA
2908	15674	28322	20.94	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2909	15676	28323	1.91	0.0E+00	AI661002.1	EST_HUMAN	In18407.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247 O16247 F44E2.7 PROTEIN. ;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2009	15875	28324	1.91	0.0E+00	AI561002.1	EST_HUMAN	lnt18d07.x1 NCL CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247
2011	15877	28326	1.83	0.0E+00	P52740	SWISSPROT	O16247 F44E7.2 PROTEIN ;
2012	15878	28327	2.01	0.0E+00	AF152338.1	NT	ZINC FINGER PROTEIN 132
2028	15884	28339	1.92	0.0E+00	AB033093.1	NT	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2028	15884	28340	1.92	0.0E+00	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2029	15895	28341	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2029	15895	28342	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2032	15898	28345	3.58	0.0E+00	7681903	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2032	15898	28346	3.58	0.0E+00	7681903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2033	15899	28347	3.21	0.0E+00	5174574	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2033	15899	28348	3.21	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24)) (MLLT4) mRNA
2038	15703	28352	1.16	0.0E+00	BF110702.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24)) (MLLT4) mRNA
2038	15703	28353	1.16	0.0E+00	BF110702.1	EST_HUMAN	7n40d03.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1
2046	15712	28364	2.15	0.0E+00	4505084	NT	Q9VLN1 CG17283 PROTEIN ;
2046	15712	28365	2.15	0.0E+00	4505084	NT	Q9VLN1 CG17283 PROTEIN ;
2053	15719	28370	1.69	0.0E+00	4758827	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2054	15720		0.96	0.0E+00	X98494.1	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2057	15723	28373	2.38	0.0E+00	AB033094.1	NT	Homo sapiens neuroxin III (NRXN3) mRNA
2058	15724	28374	5.56	0.0E+00	X15309.1	NT	H. sapiens mRNA for M phase phosphoprotein 10
2058	15724	28375	5.56	0.0E+00	X15309.1	NT	H. sapiens mRNA for KIAA1208 protein, partial cds
2059	15725	28376	7.64	0.0E+00	AF106275.1	NT	H. sapiens NF-H gene, exon 4
2073	15739		1.13	0.0E+00	AI149880.1	EST_HUMAN	H. sapiens NF-H gene, exon 4
2080	15746	28394	1.12	0.0E+00	4506118	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2081	15747	28395	2.85	0.0E+00	AB004884.1	NT	qf43f09.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
2081	15747	28404	1.52	0.0E+00	7662273	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
2083	15759	28406	3.75	0.0E+00	5729755	NT	Homo sapiens mRNA for PKU-alpha, partial cds
2093	15759	28407	3.75	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
2097	15763	28412	1.1	0.0E+00	AB037852.1	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
3025	15791	28439	1.17	0.0E+00	M74099.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
							Human displacement protein (CCAA1) mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3033	15789	28445	0.71	0.0E+00	4505882	NT	Homo sapiens semenogelin 1 (SEMG1) mRNA
3039	15805		4.62	0.0E+00	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
3042	15808	28454	3.74	0.0E+00	5579498	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3042	15808	28455	3.74	0.0E+00	5579498	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3044	15810		5.88	0.0E+00	AL358403.1	NT	isoform 2 of a novel human mRNA from chromosome 22
3049	15815	28460	1.6	0.0E+00	AF017433.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
3052	15818		1.98	0.0E+00	AF198779.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel α
3066	15832	28475	1.19	0.0E+00	AF170492.1	NT	Homo sapiens chloride channel CLCA4 (CLCA4) mRNA, complete cds
3074	15840	28483	2.8	0.0E+00	X03529.1	NT	Homo sapiens gene 16.1 for Ig lambda L-chain C region (IgL-C16.1)
3080	15845		1.64	0.0E+00	AF198355.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3084	15849	28490	1.72	0.0E+00	AF084589.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3104	15868	28509	3.2	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3105	15870	28510	7.83	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
3110	15875	28514	3.42	0.0E+00	7662139	NT	Homo sapiens KIAA0469 gene product (KIAA0469), mRNA
3111	15876	28515	1.21	0.0E+00	AF042075.1	NT	Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-9110 allele, partial cds
3138	15902	28547	3.74	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNCB1) mRNA
3148	15911	28556	26.91	0.0E+00	L20941.1	NT	Human ferritin heavy chain mRNA, complete cds
3151	15914	28559	1.32	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3151	15914	28560	1.32	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3158	15921	28567	8.63	0.0E+00	T94870.1	EST_HUMAN	ye3203.s1 Stratiogene lung (#937210) Homo sapiens cDNA clone IMAGE:119453 3' similar to SP:S29639
3172	15935	28584	0.98	0.0E+00	BF243336.1	EST_HUMAN	S29539 BASIC PROTEIN, 23K -
3178	15941	28591	4.39	0.0E+00	X08922.1	NT	601878507F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107433 5'
3178	15941	28592	4.39	0.0E+00	X08922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3187	15950	28601	1.31	0.0E+00	4758827	NT	H. sapiens mRNA for gamma-glutamyltransferase
3187	15950	28602	1.31	0.0E+00	4758827	NT	Homo sapiens neuroxin III (NRXN3) mRNA
3187	15950	28602	1.31	0.0E+00	4758827	NT	Homo sapiens neuroxin III (NRXN3) mRNA
3195	15958	28610	8.46	0.0E+00	4504658	NT	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA
3211	15974	28628	3.25	0.0E+00	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
3214	15977	28628	1.96	0.0E+00	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
3220	15983	28636	0.85	0.0E+00	4758955	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3220	15983	28637	0.85	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3222	15985	28638	3.07	0.0E+00	AA774783.1	EST_HUMAN	ae87b11.s1 Striatogene schizo brain S11 Homo sapiens cDNA clone IMAGE:971133 3'
3230	15993	28646	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3230	15993	28647	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3242	16004	28653	1.36	0.0E+00	4557590	NT	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA
3248	16010	28661	1	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3255	16017		5.8	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
3256	16018	28668	1.28	0.0E+00	AF019413.1	NT	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2W), RD, complement factor B (BF), and complement component C2 (C2) genes,>
3258	16020	28670	3.96	0.0E+00	AF056084.1	NT	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds
3261	16023	28672	1.11	0.0E+00	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3261	16023	28673	1.11	0.0E+00	7682125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3261	16023	28673	1.11	0.0E+00	7682125	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3269	17875	28681	2.09	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3269	17875	28681	2.09	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3285	18046	28695	2.25	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3286	18047	28696	1.17	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
3297	16059	28708	1.22	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3300	16062	28710	1.09	0.0E+00	AA994842.1	EST_HUMAN	cu58e08.s1 NCL_CGAP_Br2 Homo sapiens cDNA clone IMAGE:222535 3' similar to SW:RL11_RAT
3309	16066	28718	1.18	0.0E+00	4885312	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
3318	16078	28728	1.09	0.0E+00	AI589284.1	EST_HUMAN	t58f08.x2 NCL_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:222535 3' similar to SW:RL11_RAT
3326	16086	28736	2.33	0.0E+00	AF128893.1	NT	P25121 60S RIBOSOMAL PROTEIN L11; contains Alu repetitive element
3326	16086	28737	2.33	0.0E+00	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3327	16087	28738	1.22	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3327	16087	28739	1.22	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3329	16089	28741	1.27	0.0E+00	4502582	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3329	16089	28742	1.27	0.0E+00	4502582	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3329	16089	28742	1.27	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8), mRNA
3333	16093	28745	9.77	0.0E+00	AF111183.1	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8), mRNA
3335	16095	28747	1.29	0.0E+00	AB040940.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
3342	16101	28753	0.84	0.0E+00	BE779039.1	EST_HUMAN	Homo sapiens pyrin (MEFV) gene, complete cds
3352	16112	28767	0.72	0.0E+00	AI632569.1	EST_HUMAN	Homo sapiens mRNA for KIAA1507 protein, partial cds
3391	16150	28804	4.44	0.0E+00	AU123664.1	EST_HUMAN	60149495F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3968246 5'
							wb10f04.x1 NCL_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305276 3' similar to TR:Q91929 Q91929
							ZINC FINGER PROTEIN.;
							AU123664 NT2RM2 Homo sapiens cDNA clone NT2RM2000735 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3398	16156	28807	0.95	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3398	16156	28808	0.95	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3401	16159	28810	1.36	0.0E+00	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
3402	16160	28811	1.42	0.0E+00	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-1 isoform (CACNA1I) mRNA, complete cds
3406	16164		0.99	0.0E+00	AW887015.1	EST_HUMAN	MR1-SN0033-100400-001-c08 SN0033 Homo sapiens cDNA
3418	16175	28824	1.66	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3418	16175	28825	1.66	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3419	16178	28826	1.34	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
3421	16178	28827	5.37	0.0E+00	5903067	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA
3430	15441	28179	1.75	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
3435	16191	28840	2.4	0.0E+00	7857038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3438	16194	28844	5.47	0.0E+00	K02380.1	NT	Bacteriophage P1 replication region including repA, parA, and parB genes and IncA, IncB, and IncC
3440	16196	28846	1.5	0.0E+00	7427522	NT	Incompatibility determinants
3448	16204	28853	3.54	0.0E+00	AI935159.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
3448	16204	28854	3.54	0.0E+00	AI935159.1	EST_HUMAN	wp14d10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2494819 3' similar to TR:O73634 O73634
3452	16208	28859	2.48	0.0E+00	AI935159.1	EST_HUMAN	NEURAL CELL ADHESION MOLECULE. ;
3459	16215	28868	1.82	0.0E+00	AJ278120.1	NT	wp14d10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2494819 3' similar to TR:O73634 O73634
3459	16215	28869	1.82	0.0E+00	9552332	NT	NEURAL CELL ADHESION MOLECULE. ;
3464	16220	28874	1.31	0.0E+00	M14123.1	NT	Homo sapiens mRNA for putative ankryrin-repeat containing protein (ORF1)
3470	16226	28880	5.4	0.0E+00	U43293.1	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3475	16231	28884	1.18	0.0E+00	9558718	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3475	16231	28885	1.18	0.0E+00	9558718	NT	Human endogenous retrovirus HERV-K10
3479	16235	28890	1.94	0.0E+00	AF045452.1	NT	Human MDS1A (AML1/MDS1 fusion) mRNA, partial cds
3479	16235	28891	1.94	0.0E+00	AF045452.1	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3484	16241	28898	1.12	0.0E+00	AF231922.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3486	16252	28905	2.21	0.0E+00	BE304791.1	EST_HUMAN	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3496	16252	28908	2.21	0.0E+00	BE304791.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
3499	16255	28909	0.92	0.0E+00	4826795	NT	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
							601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
							Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNK2) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3504	16280	28914	0.89	0.0E+00	A1384007.1	EST_HUMAN	1635g12.x1 Soares_NH-IMPu_S1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR:O00498
3507	16283	28917	1.11	0.0E+00	M10978.1	NT	O00498 MYASTHENIA GRAVIS AUTOANTIGEN GRAVIN;
3529	16285	28940	1.29	0.0E+00	AV701869.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
3530	16286	28941	0.85	0.0E+00	4506894	NT	AV701869 ADB Homo sapiens cDNA clone ADBDAH08 5'
3531	16287		1.74	0.0E+00	AF078868.1	NT	Homo sapiens semaphorin II (SEMG2) mRNA
3539	16295	28945	1.49	0.0E+00	AL133204.1	NT	Homo sapiens homologous yeast-44.2 protein mRNA, complete cds
3542	16297	28948	1.21	0.0E+00	AB040909.1	NT	Novel human gene mapping to chromosome X
3561	16316	28963	1.37	0.0E+00	6997248	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3561	16316	28964	1.37	0.0E+00	6997248	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3562	16317		0.89	0.0E+00	A1081907.1	EST_HUMAN	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3564	16319	28987	1.04	0.0E+00	6325463	NT	cc77c11.x1 Soares_NH-IMPu_S1 Homo sapiens cDNA clone IMAGE:1662356 3' similar to WP:T19B4.4
3568	16324		4.17	0.0E+00	AW852217.1	EST_HUMAN	CE13742;
3576	16331		0.78	0.0E+00	AF118846.1	NT	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3577	16332	28976	6.46	0.0E+00	BF676393.1	EST_HUMAN	QV0-CT0225-230300-189-e01 CT0225 Homo sapiens cDNA
3588	16343	28988	0.9	0.0E+00	AW937977.1	EST_HUMAN	Homo sapiens gamma-glutamylcysteine synthetase (GLCLC) gene, partial cds
3603	16356	28996	0.74	0.0E+00	BF672054.1	EST_HUMAN	602084583F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248568 5'
3603	16356	28997	0.74	0.0E+00	BF672054.1	EST_HUMAN	QV0-DT0047-170200-123-g01 DT0047 Homo sapiens cDNA
3604	16357		0.95	0.0E+00	4828987	NT	602152496F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293645 5'
3606	16359	28999	1.08	0.0E+00	AW684693.1	EST_HUMAN	602152496F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293645 5'
3606	16359	29000	1.08	0.0E+00	AW684693.1	EST_HUMAN	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3609	16362	29004	1.42	0.0E+00	4828763	NT	h184g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3611	16364	29007	0.93	0.0E+00	7662319	NT	h184g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3621	16374	29015	0.82	0.0E+00	4557752	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 1 (HS3ST1) mRNA
3621	16374	29016	0.82	0.0E+00	4557752	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 1 (HS3ST1) mRNA
3638	16391	29030	2.67	0.0E+00	D87327.1	NT	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1) mRNA
3642	16395		33.2	0.0E+00	7669491	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
3658	18411	29049	2.6	0.0E+00	AB028542.1	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
3660	18413	29051	3.38	0.0E+00	AF124250.1	NT	Homo sapiens WAVE2 mRNA for WASP family protein, complete cds
3660	18413	29052	3.38	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3668	18421	29061	1.85	0.0E+00	AL163204.2	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3668	18421	29062	1.85	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3671	18424	29065	1.62	0.0E+00	AW851714.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
							MR2-CT0222-281089-005-e05 CT0222 Homo sapiens cDNA

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3673	18426	29067	1.53	0.0E+00	5729928	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3675	18428	29069	1.81	0.0E+00	AB018339.1	NT	Homo sapiens mRNA for KIAA0706 protein, partial cds
3677	18430	29071	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3677	18430	29072	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3679	18432	29074	22.21	0.0E+00	7682237	NT	Homo sapiens KIAA0670 protein/actin (KIAA0670), mRNA
3679	18432	29075	22.21	0.0E+00	7682237	NT	Homo sapiens KIAA0670 protein/actin (KIAA0670), mRNA
3682	18445	29084	4.35	0.0E+00	AW298134.1	EST_HUMAN	UIH-BW0-aj-e-12-0-UI.st NCI CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3682	18445	29085	4.35	0.0E+00	AW298134.1	EST_HUMAN	UIH-BW0-aj-s-e-12-0-UI.st NCI CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3714	18467	29105	1.08	0.0E+00	AA463650.1	EST_HUMAN	SW:KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIB4. [1];
3718	18471	29109	1.14	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3721	18474	29111	3.31	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3730	18482	29120	0.82	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3742	18495	29130	4.9	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3745	18498	29133	4.29	0.0E+00	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
3751	18503	29138	1.08	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3751	18503	29139	1.08	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3800	18552	29185	0.71	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
3802	18554	29187	2.88	0.0E+00	AF179733.1	NT	Homo sapiens olfactory receptor (PTR208) gene, partial cds
3804	18556	29187	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3804	18558	29188	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3808	18560	29193	1.24	0.0E+00	4759011	NT	Homo sapiens RAB9, member RAS oncogene family (RAB9) mRNA
3809	18561	29194	1.01	0.0E+00	10181139	NT	Homo sapiens junctional protein 1 (Jp1-pending), mRNA
3812	18564	29197	1.01	0.0E+00	A1377689.1	EST_HUMAN	Mus musculus junctional protein 1 (Jp1-pending), mRNA
3813	18565	29198	1.97	0.0E+00	AF152496.1	NT	te62f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2091307 3'
3814	18566	29198	1.14	0.0E+00	4758199	NT	Homo sapiens protocadherin beta 3 (PCDH-beta3) mRNA, complete cds
3818	18570	29202	10.39	0.0E+00	S78685.1	NT	Homo sapiens desmoplakin (DPI, DP1) (DSP) mRNA
3819	18571	29203	2.22	0.0E+00	7710148	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ8/BIR1) gene, complete cds
3820	18572	29204	6.03	0.0E+00	7682183	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA
3824	18576	29207	1.23	0.0E+00	AF098901.2	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3824	18576	29208	1.23	0.0E+00	AF098901.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3829	18580	29213	0.97	0.0E+00	AB001523.1	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3829	18580	29214	0.97	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds

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3831	16582	29216	1.12	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3835	16586	29222	6.16	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5), mRNA
3835	16586	29223	6.16	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5), mRNA
3837	16588	29226	4.04	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134, mRNA, complete cds
3838	16589	29227	0.69	0.0E+00	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN), mRNA, complete cds
3841	16592	29229	2.86	0.0E+00	4828783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1), mRNA
3844	16595	29232	1.05	0.0E+00	AF012615.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11
3845	16596	29233	1.43	0.0E+00	4759171	NT	Homo sapiens SC35-Interacting protein 1 (SRRP129), mRNA
3847	16598	29235	0.74	0.0E+00	AF099117.1	NT	Homo sapiens amphiphysin gene, partial cds
3856	16606	29244	2.18	0.0E+00	AI884727.1	EST_HUMAN	wk0101.x1 NCL CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411065 3' similar to TR:O43340
3859	16609	29248	4.24	0.0E+00	4506742	NT	O43340 R28830_2: contains element PTR7 repetitive element ;
3862	16612	29251	1.35	0.0E+00	AL040338.1	EST_HUMAN	Homo sapiens ribosomal protein S8 (RPS8), mRNA
3867	16617	29256	1.28	0.0E+00	6005987	NT	DKFZp434N0413_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0413 5'
3867	16617	29257	1.28	0.0E+00	6005987	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3869	16619	29259	3.22	0.0E+00	4504138	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3871	16621	29263	1.82	0.0E+00	4505078	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3), mRNA
3875	16625	29263	1.18	0.0E+00	AF149412.1	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1), mRNA
3884	16634	29273	1.2	0.0E+00	4500758	NT	Homo sapiens HBP17 heparin-binding and FGF-binding protein gene, complete cds
3888	16638	29277	1.47	0.0E+00	4585642	NT	Homo sapiens tyrosine receptor 3 (RYR3), mRNA
3896	16646	29286	1.18	0.0E+00	BF355295.1	EST_HUMAN	Homo sapiens zinc finger protein (KIAA0412), mRNA
3898	16648	29288	1.05	0.0E+00	AW888221.1	EST_HUMAN	RC3-HT0860-170800-011-412 HT0860 Homo sapiens cDNA
3898	16648	29289	1.05	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1896726 similar to MXRA5
3904	16654	29295	1.82	0.0E+00	AF128633.1	EST_HUMAN	Matrix remodelling associated gene 5
3907	16657	29298	1	0.0E+00	AW451306.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1896726 similar to MXRA5
3912	16662	29303	2.81	0.0E+00	BE378602.1	EST_HUMAN	Homo sapiens F-box protein FB3b (FBL3B), mRNA, partial cds
3920	16670	29311	0.92	0.0E+00	AW580740.1	EST_HUMAN	UI-H-B13-ah-g-07-0JL.s1 NCL CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736949 3'
3922	16672	29312	2.49	0.0E+00	5380215	NT	PM3-LT0031-100700-003-H09 L70031 Homo sapiens cDNA
3923	16673	29313	0.98	0.0E+00	BE284998.1	EST_HUMAN	Homo sapiens diuronate 2-sulfatase (Hunter syndrome) (IDS), transcript variant 1, mRNA
3923	16673	29314	0.98	0.0E+00	BE284998.1	EST_HUMAN	601183827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
3952	16702	29339	1.42	0.0E+00	U10901.1	NT	601183827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
							Human G2 protein mRNA, partial cds

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3952	16702	28340	1.42	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
3952	16702	28341	1.42	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
3957	16706	28344	4.69	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3957	16706	28345	4.69	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3966	16715		4.39	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DPw4-beta-2 pseudogene, exon 2
3968	16717		5.74	0.0E+00	AL163303.2	NT	Human sapiens chromosome 21 segment HS21C103
3975	16724	29359	1.35	0.0E+00	AL118494.1	NT	Novel human gene mapping to chromosome 20
3979	16727	29361	3.22	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
3987	16735	29369	1.71	0.0E+00	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
3998	16747		27.98	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4003	16750		1.15	0.0E+00	AI657076.1	EST_HUMAN	t55g08.x1 NCL CGAP_GC8 Homo sapiens cDNA clone IMAGE:2244734 3' similar to TR:060309 O60309 KIAA0563 PROTEIN.
4005	16761	29382	2.97	0.0E+00	7682183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4006	16752	29383	2.85	0.0E+00	U09366.1	NT	Human zinc finger protein ZNF133
4013	16759	29387	0.95	0.0E+00	AW339490.1	EST_HUMAN	xx21e10.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871594 3'
4024	16769	29401	6.33	0.0E+00	AB015610.1	NT	Chlorocibac aethiops mRNA for ribosomal protein S4X, complete cds
4033	16778		3.72	0.0E+00	AJ238817.1	NT	Homo sapiens mRNA for UGA suppressor tRNA-associated antigenic protein (RNA48 gene)
4045	16790	29418	1.32	0.0E+00	AB002314.2	NT	Homo sapiens mRNA for KIAA0316 protein, partial cds
4046	16791	29419	1.04	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4047	16792	29420	1.18	0.0E+00	AF036943.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1L) mRNA, complete cds
4048	16793	29421	2.65	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rape-2 (rape gene)
4048	16793	29422	2.65	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rape-2 (rape gene)
4054	16799	29429	6.29	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4054	16799	29430	6.29	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4069	16813	29442	4.7	0.0E+00	4885306	NT	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4070	16814	29443	5.98	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4073	16817	29444	1.11	0.0E+00	4768807	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
4074	16818	29445	5.97	0.0E+00	11419297	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4075	16819	29446	1.94	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4082	16826	29453	2.71	0.0E+00	AF185527.1	NT	Homo sapiens DGCR8 (DGCR8) mRNA, complete cds
4091	13867	26525	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRICK) mRNA
4091	13867	26526	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRICK) mRNA
4097	16840	29466	1.09	0.0E+00	5901905	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
4098	16842	29469	1.06	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4099	18842	29470	1.08	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
4107	18850	29478	0.89	0.0E+00	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
4112	18855	29482	4.93	0.0E+00	AJ982597.1	EST_HUMAN	wu04d04.x1 NCI CGAP GC8 Homo sapiens cDNA clone IMAGE:2515975 3'
4112	18855	29483	4.93	0.0E+00	AJ982597.1	EST_HUMAN	wu04d04.x1 NCI CGAP GC8 Homo sapiens cDNA clone IMAGE:2515975 3'
4115	18867	29485	0.82	0.0E+00	BE184858.1	EST_HUMAN	MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA
4115	18867	29489	0.82	0.0E+00	BE184858.1	EST_HUMAN	MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA
4120	18862	29495	2.34	0.0E+00	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867690 5'
4126	18868	29496	0.99	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4126	18868	29496	0.99	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4128	18870	29498	2.24	0.0E+00	5729725	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4135	18877		5.52	0.0E+00	AW675598.1	EST_HUMAN	ba51f04.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800095 3' similar to SW:TH12_BOVIN
4140	18882	29511	1.14	0.0E+00	AW408786.1	EST_HUMAN	Q85108 MITOCHONDRIAL THIOREDOXIN PRECURSOR ;
4142	18884	29514	1.26	0.0E+00	8922496	NT	UI-HF-BMO-adj-c-02-0-U1.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063147 5'
4142	18884	29515	1.26	0.0E+00	8922496	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4151	18893		2.8	0.0E+00	5174632	NT	Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREJ) mRNA
4169	18909	29537	8.97	0.0E+00	AA401438.1	EST_HUMAN	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4169	18909	29538	8.97	0.0E+00	AA401438.1	EST_HUMAN	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4205	18946		1.01	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
4240	18951	29608	4.08	0.0E+00	J02810.1	NT	Human apolipoprotein B-100 mRNA, complete cds
4255	18996	29625	0.83	0.0E+00	AW936689.1	EST_HUMAN	PM2-DT0023-080300-004-a08 DT0023 Homo sapiens cDNA
4261	17002	29633	0.74	0.0E+00	4828827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4261	17002	29634	0.74	0.0E+00	4828827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4263	17004	29636	4.7	0.0E+00	AF174590.1	NT	Homo sapiens F-box protein FBL4 (FBL4) mRNA, partial cds
4270	17010		2.52	0.0E+00	AI189844.1	EST_HUMAN	qd23f06.x1 Soares_placenta_8to9weeks_2NtHP8to9w Homo sapiens cDNA clone IMAGE:1724579 3' similar to contains MER20 b2 MER20 repetitive element ;
4273	17012		4.32	0.0E+00	U14520.1	NT	Human CBFA3 (Cbfa3) gene, partial cds
4285	17024	29650	1.35	0.0E+00	4505846	NT	Homo sapiens protein convertase subtilisin/kexin type 2 (PCSK2) mRNA
4291	17030	29657	0.78	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4291	17030	29658	0.78	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4297	17036	29664	1.58	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4297	17036	29865	1.58	0.0E+00	U10891.1	NT	Human G2 protein mRNA, partial cds
4307	17048	29671	8.31	0.0E+00	6912281	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4327	17060		1.16	0.0E+00	AF153047.2	NT	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds
4337	17076	29704	4.17	0.0E+00	L14591.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4341	17080	29709	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4341	17080	29710	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4342	17081	29711	0.94	0.0E+00	AW168833.1	EST_HUMAN	xc98e10.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:2633514 3' similar to TR:P97365 P97365
4348	17087	29717	1.42	0.0E+00	X60483.1	NT	ZINC FINGER PROTEIN 64 ;
4348	17087	29718	1.42	0.0E+00	X60483.1	NT	H. sapiens H4/d gene for H4 histone
4353	17091	29724	8.62	0.0E+00	7662091	NT	H. sapiens H4/d gene for H4 histone
4353	17091	29725	8.62	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4366	17104	29740	12.59	0.0E+00	4885126	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4367	17105	29741	1.14	0.0E+00	AJ271736.1	NT	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA
4400	17137	29766	0.98	0.0E+00	7019456	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
4408	17145		6.5	0.0E+00	AF195953.1	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4414	17151	29778	1.25	0.0E+00	AJ249765.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4414	17151	29779	1.25	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4436	17172		1.81	0.0E+00	AF200629.1	NT	Homo sapiens HPS1 gene, intron 5
4453	17189	29814	1.43	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA Cdx8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F1205 5'
4453	17189	29815	1.43	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA Cdx8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F1205 5'
4456	17192		0.73	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
4466	17202	29828	5.68	0.0E+00	AW084964.1	EST_HUMAN	xc98e08.x1 NCL CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2689446 3' similar to SW:AHNK_HUMAN
4468	17881		1.57	0.0E+00	8051619	NT	Q09668 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNAK ;
4470	17205	29831	0.93	0.0E+00	A1996698.1	EST_HUMAN	Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
4473	17208		8.82	0.0E+00	AL163207.2	NT	wc56b02.x1 NCL CGAP_P128 Homo sapiens cDNA clone IMAGE:2322803 3' similar to contains MER22.b2
4475	17210	29835	3.17	0.0E+00	AW381570.1	EST_HUMAN	PTR5 repetitive element ;
4481	17216	29842	1.99	0.0E+00	AJ278120.1	NT	Homo sapiens chromosome 21 segment HS21C007
4481	17216	29843	1.99	0.0E+00	AJ278120.1	NT	PM1-HT0305-107199-002-d03 HT0305 Homo sapiens cDNA
4483	17218	29845	1.29	0.0E+00	4758487	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4484	17219	29846	2.88	0.0E+00	AF108830.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
							Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
							Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4493	17229	29858	1.28	0.0E+00	S78694.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit 1 (KCNJ16/BIR1) gene, exon
4494	17230	29859	1.06	0.0E+00	AF111163.1	NT	Homo sapiens pyruvate (MEFV) gene, complete cds
4494	17230	29860	1.06	0.0E+00	AF111163.1	NT	Homo sapiens pyruvate (MEFV) gene, complete cds
4502	17882	29870	2.56	0.0E+00	6005973	NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4507	17242	29875	6.16	0.0E+00	AF208181.1	NT	Homo sapiens synovial precursor, mRNA, complete cds
4512	17247	29882	4.31	0.0E+00	AF152337.1	NT	Homo sapiens protocadherin gamma C3 (PCDH-gamma-C3) mRNA, complete cds
4515	17250	29886	1.32	0.0E+00	5454175	NT	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4525	17260	29894	15.47	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4532	17267	29900	0.79	0.0E+00	4505016	NT	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
4536	17271	29903	1.61	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4540	17275	29908	2.03	0.0E+00	4502658	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4544	17279	29910	2.38	0.0E+00	L35485.1	NT	Homo sapiens thionin sulphydryl sulphydrylase (IDS) gene, complete cds
4546	17281	29911	12.72	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4546	17281	29911	12.72	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4563	17298	29925	0.96	0.0E+00	AF143314.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
4566	17301	29928	10.33	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4566	17301	29929	10.33	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4581	17316		1.68	0.0E+00	AA174072.1	EST HUMAN	zp18508.s1 Strategene fetal retina 937202 Homo sapiens cDNA clone IMAGE:809854 3'
4583	17318		1.46	0.0E+00	7657410	NT	Homo sapiens cdz (odd Ozhan-m, Drosophila) homolog 1 (ODZ1), mRNA
4585	17320		3.16	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4586	17321	29947	1.04	0.0E+00	H92741.1	EST HUMAN	y82601.s1 Soares_pituitary_gland_N31PFG Homo sapiens cDNA clone IMAGE:231721 3'
4586	17321	29948	1.04	0.0E+00	H92741.1	EST HUMAN	y82601.s1 Soares_pituitary_gland_N31PFG Homo sapiens cDNA clone IMAGE:231721 3'
4587	17322	29949	2.8	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4588	17323	29950	4.94	0.0E+00	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4589	17324		1.66	0.0E+00	AB037621.1	NT	Homo sapiens gene for netrin-1 protein, partial cds
4596	17331	29958	1.53	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4596	17331	29959	1.53	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4597	17332	29960	1.52	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4597	17332	29961	1.52	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4598	17333	29982	1.5	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4605	17340	29970	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4605	17340	29971	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4611	17346	29979	5.25	0.0E+00	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4617	17352	29987	1.06	0.0E+00	AA418246.1	EST_HUMAN	z168b07.s1 Soares_NHIMPu_S1 Homo sapiens cDNA clone IMAGE:767805 3'
4624	17359		2.27	0.0E+00	AF066841.1	NT	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4629	17364	29998	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4629	17364	29999	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4630	17365	30000	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4630	17365	30001	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4631	17366	30002	2.87	0.0E+00	M74098.1	NT	Human displacement protein (CCAAT) mRNA
4635	17370	30005	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4635	17370	30006	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4636	12950	25593	0.82	0.0E+00	T56945.1	EST_HUMAN	ye83g04.12 Strategene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4636	12950	25594	0.82	0.0E+00	T56945.1	EST_HUMAN	ye83g04.12 Strategene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4639	17373		1.31	0.0E+00	BE278730.1	EST_HUMAN	601168935F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505521 5'
4660	17394	30029	1.33	0.0E+00	U56651.1	NT	Mus musculus neurophilin 1 (Nuph1) gene, large exon and 3' end of the intron, and partial cds
4665	17399	30033	6.87	0.0E+00	M80902.1	NT	Human AHNK nucleoprotein mRNA, 5' end
4668	17402	30036	2.23	0.0E+00	M80197.1	NT	Human heptoglobin and heptoglobin-related protein (HP and HPR) genes, complete cds
4668	17402	30037	2.23	0.0E+00	M80197.1	NT	Human heptoglobin and heptoglobin-related protein (HP and HPR) genes, complete cds
4671	17405	30040	1.9	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTTR) gene, complete cds
4673	17407	30042	2.02	0.0E+00	7662181	NT	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA
4680	17414	30049	0.95	0.0E+00	U07593.1	NT	Human proto-oncogene tyrosine-protein kinase (ABL) gene, exon 1a and exons 2-10, complete cds
4681	17415	30050	0.97	0.0E+00	S71446.1	NT	SCN1A=brain type I sodium channel alpha-subunit (IIIS5 transmembrane region) [human, placenta, Genomic, 1558 nt]
4681	17415	30051	0.97	0.0E+00	S71446.1	NT	SCN1A=brain type I sodium channel alpha-subunit (IIIS5 transmembrane region) [human, placenta, Genomic, 1558 nt]
4692	17426		1.45	0.0E+00	X58467.1	NT	Human CYP2D7AP pseudogene for cytochrome P450 2D6
4701	17435	30065	1.05	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4701	17435	30066	1.05	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4709	17441	30073	1.4	0.0E+00	AF026801.1	NT	Homo sapiens alpha-3 type IX collagen (COL9A3) gene, promoter region, and exons 1-26
4712	17444	30076	0.84	0.0E+00	7019320	NT	Homo sapiens protein0008 (AD013), mRNA

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4712	17444	30077	0.84	0.0E+00	7018320	NT	Homo sapiens protein0008 (AD013), mRNA
4735	17467	30103	1.88	0.0E+00	AW444637.1	EST_HUMAN	U1-H-E13-4W-C-04-0-U1.s1 NC1_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733294 3'
4740	17472		1.82	0.0E+00	AF083242.1	NT	Homo sapiens HSPC024-iso mRNA, complete cds
4750	17482		2.28	0.0E+00	M05189.1	NT	Human connexin 43 processed pseudogene
4790	17521		2.79	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4794	17525	30147	2.02	0.0E+00	X87205.1	NT	M.fascicularis mRNA for metalloprotease-like, disintegrin-like protein, IVa
4796	17527	30149	1.11	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
4797	17528	30150	1.98	0.0E+00	AF097416.1	NT	Mus musculus zinc finger transcription factor Kaiso mRNA, complete cds
4798	17529	30151	3.01	0.0E+00	4503768	NT	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
4800	17531	30153	13.57	0.0E+00	4885048	NT	Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
4801	17532	30154	1.04	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
4805	17536	30159	5.7	0.0E+00	8923080	NT	Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA
4809	17540	30163	0.97	0.0E+00	7681979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
4810	17541	30164	1.84	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4810	17541	30165	1.84	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4812	17543	30167	1.44	0.0E+00	X94628.1	NT	Homo sapiens MeCP-2 gene
4812	17543	30168	1.44	0.0E+00	X94628.1	NT	Homo sapiens MeCP-2 gene
4815	17546	30171	2.98	0.0E+00	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4823	17554	30176	1.17	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF2)
4830	17561	30183	1.09	0.0E+00	X92841.1	NT	mRNA
4832	17563	30185	1.91	0.0E+00	4585642	NT	H. sapiens MICA gene
4833	17564	30186	1.81	0.0E+00	AB014633.1	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
4834	17565	30187	2.24	0.0E+00	6677848	NT	Homo sapiens zinc finger protein (KIAA0633) protein, partial cds
4835	17566	30188	0.95	0.0E+00	5174560	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
4836	17567	30189	1.19	0.0E+00	4758199	NT	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA
4838	17568	30191	1.81	0.0E+00	7705548	NT	Homo sapiens meningoangioma expressed antigen 6 (colled-cell proline-rich) (MGEA6), mRNA
4842	17572	30196	12.62	0.0E+00	AF055086.1	NT	Homo sapiens desmoplakin (DPI, DPIP) (DSP) mRNA
4844	17574		3.47	0.0E+00	4505508	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA
4845	17575	30199	2.39	0.0E+00	AF091711.1	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA
4858	17587	30210	1.07	0.0E+00	D63562.1	NT	Homo sapiens MHC class 1 region
							Homo sapiens opiod receptor, delta 1 (OPRD1) mRNA
							Homo sapiens splice variant AKAP350 mRNA, partial cds
							Homo sapiens COL4A6 gene for a6(V) collagen, exon 44 and partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4860	17589	30212	1.68	0.0E+00	4503884	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FDPs) mRNA
4865	17224	29852	1.03	0.0E+00	4506952	NT	Homo sapiens sialyltransferase 8 (alpha-N-acetylneuraminatase: alpha-2,8-sialyltransferase, GD3 synthase) (SIAT8) mRNA
4875	17602	30224	3.09	0.0E+00	AB006825.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4875	17602	30225	3.09	0.0E+00	AB006825.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4885	17612	30232	0.95	0.0E+00	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4899	17626	30243	1.45	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4906	17633	30248	1.02	0.0E+00	AW452728.1	EST_HUMAN	U1H-B13-ahv-f02-0-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068691 3'
4909	17637	30251	1.61	0.0E+00	8922928	NT	Homo sapiens hypothetical protein FLJ11190 (FLJ11190), mRNA
4912	17640	30255	1.09	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
4915	17643		4.69	0.0E+00	U14087.1	NT	Human ribosomal protein L21 mRNA, complete cds
4924	17652		2.95	0.0E+00	BE408663.1	EST_HUMAN	601303720F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638118 5'
4928	17656	30268	3.18	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DPL) (DSP) mRNA
4933	17661	30271	1.15	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
4938	17666	30274	1.01	0.0E+00	AB026968.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
4947	17674	30283	2.34	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4947	17674	30284	2.34	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4958	17683	30291	0.81	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
4958	17683	30292	0.81	0.0E+00	AA601246.1	EST_HUMAN	E239140 SPALT PROTEIN;
4958	17683	30293	0.81	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
4961	17686	30296	1.11	0.0E+00	AF161463.1	NT	E239140 SPALT PROTEIN;
4961	17686	30296	1.11	0.0E+00	AF161463.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4973	13019	25661	0.71	0.0E+00	AF195958.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4976	17689		0.84	0.0E+00	AL050253.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMP6, Tollid, Sushi repeat proteins
4985	17708	30312	1.63	0.0E+00	AF016705.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 3
4986	17709	30313	1.5	0.0E+00	Y19186.1	NT	Mus musculus mRNA for ezrin, short spliced variant (acz gene)
4986	17709	30314	1.5	0.0E+00	Y19186.1	NT	Mus musculus mRNA for ezrin, short spliced variant (acz gene)
4994	17717		1.26	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4997	17720		26.03	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
5001	17724	30326	0.97	0.0E+00	AA084272.1	EST_HUMAN	zn03g10.r1 Stratagene INT neuron (#837233) Homo sapiens cDNA clone IMAGE:546402 5'
5001	17724	30327	0.97	0.0E+00	AA084272.1	EST_HUMAN	zn03g10.r1 Stratagene INT neuron (#837233) Homo sapiens cDNA clone IMAGE:546402 5'
5012	16924	29553	0.95	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5012	16924	29554	0.95	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5026	17747	30359	3	0.0E+00	X52988.1	NT	Bacillus amyloquelaciens sacB gene for levansucrase (EC 2.4.1.10)
5042	17761	30375	1.04	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5042	17761	30376	1.04	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5045	17764	30380	1.55	0.0E+00	7657074	NT	Homo sapiens ecotropic viral integration site 2A (EVI2A), mRNA
5045	17764	30381	1.55	0.0E+00	7657074	NT	Homo sapiens ecotropic viral integration site 2A (EVI2A), mRNA
5049	17768	30387	1.11	0.0E+00	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5050	17769	30388	14.05	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
5052	17771	30389	1.03	0.0E+00	4557362	NT	Homo sapiens PR domain containing 1, with ZNF domain (PRDM1) mRNA
5056	17775	30391	2.75	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5056	17775	30392	2.75	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5058	17777	30394	1.07	0.0E+00	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
5079	17798	30414	1.01	0.0E+00	8923822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5079	17798	30415	1.01	0.0E+00	8923822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5081	17800	30417	0.78	0.0E+00	7708245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5081	17800	30418	0.76	0.0E+00	7708245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5088	17807	30423	2.69	0.0E+00	7657008	NT	Homo sapiens deleted in bladder cancer chromosome region candidate 1 (DBCGR1), mRNA
5097	17816	30433	2.05	0.0E+00	AB011131.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
5109	17827	30444	1.23	0.0E+00	D49802.1	NT	Mus musculus mRNA for leucine-rich repeat protein, partial cds
5110	17828	30445	1.14	0.0E+00	AF227534.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete cds, long splice variant
5111	17829	30446	1.88	0.0E+00	AF227534.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete cds, long splice variant
5112	17830	30447	0.99	0.0E+00	AF245702.1	NT	Homo sapiens toll-like receptor 7 (TLR7) mRNA, complete cds
5115	17833	30449	6.53	0.0E+00	4505096	NT	Homo sapiens microtubule-associated protein 2 (MAP2) mRNA
5116	17834	30450	1.5	0.0E+00	6008002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5116	17834	30451	1.5	0.0E+00	6008002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5117	17835	30452	1.6	0.0E+00	AW955819.1	EST_HUMAN	EST367889 IMAGE resequences, MAGD Homo sapiens cDNA
5119	17837		1.31	0.0E+00	AB040846.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
5126	17844		1.12	0.0E+00	AJ010179.1	NT	Homo sapiens gabarbt1 receptor gene, exon 6

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5139	17857	30473	5.57	0.0E+00	AB027013.1	NT	Homo sapiens mRNA for Nucleosome Assembly Protein 1-like 2, complete cds
5150	17861	30477	1.19	0.0E+00	AB035358.1	NT	Homo sapiens mRNA for neuraxin I-alpha protein, complete cds
5151	17868	30481	1.18	0.0E+00	AB028040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
5154	17871		1.08	0.0E+00	M91803.1	NT	Human sodium channel mRNA
5155	17872	30484	1.37	0.0E+00	5454013	NT	Homo sapiens ring finger protein 15 (RNF15), mRNA
5162	17893		3.44	0.0E+00	AF093093.1	NT	Homo sapiens acetylase (ACO2) gene, nuclear gene encoding mitochondrial protein, exon 15
5172	17881	30495	2.52	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5172	17981	30496	2.52	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5192	18000	30823	1.29	0.0E+00	AI834954.1	EST_HUMAN	wp08g08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2484094.3'
5195	18003	30826	1.77	0.0E+00	9259579	NT	Homo sapiens protocadherin alpha 13 (PCDH13), mRNA
5209	18017	30639	3.81	0.0E+00	BE931080.1	EST_HUMAN	RC3-GN0078-310800-013-b03 GN0078 Homo sapiens cDNA
5213	18021	30843	3	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5213	18021	30844	3	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5220	18027	30852	1.66	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5220	18027	30853	1.66	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5299	18104	30763	6.56	0.0E+00	BE875496.1	EST_HUMAN	7110c06.x1 NCI_CGAP_CLL.1 Homo sapiens cDNA clone IMAGE:3294250.3'
5300	18105	30764	1.75	0.0E+00	BE220763.1	EST_HUMAN	h199a02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3165194.3' similar to SW:Y054_HUMAN
5301	18106	30765	1.93	0.0E+00	BE794412.1	EST_HUMAN	P42894 HYPOTHETICAL PROTEIN KIAA0064.;
5301	18106	30766	1.93	0.0E+00	BE794412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804.5'
							601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804.5'
5302	18107	30767	0.81	0.0E+00	AI189142.1	EST_HUMAN	qd04a04.x1 Soares_placenta_8to9weeks_2NHIP8a9W Homo sapiens cDNA clone IMAGE:1722702.3' similar to SW:T2D3_DROME P48946 TRANSCRIPTION INITIATION FACTOR TFID 85 KD SUBUNIT ;
5306	18111	30770	6.17	0.0E+00	M29608.1	NT	Homo sapiens eosinophil peroxidase (EPP) gene, exon 7
5310	25066	30780	4.68	0.0E+00	11421038	NT	Homo sapiens Sp4 transcription factor (SP4), mRNA
5329	18132		7.18	0.0E+00	BF065962.1	EST_HUMAN	602118928F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276254.5'
5330	18133	30781	0.73	0.0E+00	AU134406.1	EST_HUMAN	AU134408 OVARC1 Homo sapiens cDNA clone OVARC1001894.5'
5330	18133	30792	0.73	0.0E+00	AU134406.1	EST_HUMAN	AU134408 OVARC1 Homo sapiens cDNA clone OVARC1001894.5'
5335	18138	30789	1	0.0E+00	BE538957.1	EST_HUMAN	601061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839.5'
5344	18147	30826	1.07	0.0E+00	BE262784.1	EST_HUMAN	601105891F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988310.5'
5348	18151	30831	1.69	0.0E+00	BF528328.1	EST_HUMAN	802071372F1 NCI_CGAP_Bm84 Homo sapiens cDNA clone IMAGE:4214272.5'
5348	18161	30832	1.69	0.0E+00	BF528328.1	EST_HUMAN	802071372F1 NCI_CGAP_Bm84 Homo sapiens cDNA clone IMAGE:4214272.5'
5367	19491	32513	1.82	0.0E+00	4557364	NT	Homo sapiens Bloom syndrome (BLM) mRNA
5370	18171	30858	0.91	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0468 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5370	18171	30859	0.91	0.0E+00	AB007835.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
5374	18174	30863	4.85	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5374	18174	30864	4.85	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5387	18187	30878	1.06	0.0E+00	D26635.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
5387	18187	30879	1.06	0.0E+00	D26635.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
5401	18201	30906	1.88	0.0E+00	11420818	NT	Homo sapiens ciliary receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5407	18206	30912	0.81	0.0E+00	Z38133.1	NT	H. sapiens mRNA for myosin
5428	18225	30936	0.78	0.0E+00	D61584.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05
5428	18225	30937	0.78	0.0E+00	D61584.1	EST_HUMAN	5'
5429	18228	30941	2.55	0.0E+00	BF529831.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05
5429	18228	30942	2.55	0.0E+00	BF529831.1	EST_HUMAN	5'
5434	18233	30946	2.92	0.0E+00	BF313139.1	EST_HUMAN	602042322F1 NCI CGAP Bm67 Homo sapiens cDNA clone IMAGE:4179888 5'
5445	18244	31132	4.37	0.0E+00	11434392	NT	602042322F1 NCI CGAP Bm67 Homo sapiens cDNA clone IMAGE:4179888 5'
5477	18276	31171	1.15	0.0E+00	BE260777.1	EST_HUMAN	601897658F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126815 5'
5486	18285		3.51	0.0E+00	AW867316.1	EST_HUMAN	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
5500	18298	31106	2.33	0.0E+00	BE292889.1	EST_HUMAN	601150252F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502809 5'
5500	18298	31197	2.33	0.0E+00	BE292889.1	EST_HUMAN	MRO-SN0037-030-400-001-h07 SN0037 Homo sapiens cDNA
5521	18319	31219	1.51	0.0E+00	11420819	NT	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987803 5'
5521	18319	31220	1.51	0.0E+00	11420819	NT	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987803 5'
5528	18326	31228	4.35	0.0E+00	AF064254.1	NT	Homo sapiens ciliary receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5528	18326	31229	4.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5535	18333	31239	2.95	0.0E+00	AJ224639.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5535	18333	31240	2.95	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5566	18363	31271	0.61	0.0E+00	A108515.1	EST_HUMAN	Homo sapiens Surf-5 and Surf-6 genes
5570	18367	31277	6.98	0.0E+00	M85719.1	EST_HUMAN	qtp4g10.x1 Soares placenta 86c9weeks 2Nbl-IP81c9w Homo sapiens cDNA clone IMAGE:1757730 3'
5577	18374	31286	4.83	0.0E+00	AW405472.1	EST_HUMAN	similar to SW:CADDC_HUMAN P56289 BRAIN-CADHERIN PRECURSOR ;
5590	18386	31296	1.25	0.0E+00	Z26268.1	NT	EST02238 Fetal brain, Striatogene (cat3336206) Homo sapiens cDNA clone HIFBGM48
5601	18396	31306	1.94	0.0E+00	AW361877.1	EST_HUMAN	U1-HF-BL0-act1-4-02-o-U1-T NIH_MGC 37 Homo sapiens cDNA clone IMAGE:3061658 5'
5601	18396	31307	1.94	0.0E+00	AW361877.1	EST_HUMAN	H. sapiens isoform 1 gene for L-type calcium channel, exon 14 cdntd 15
5601	18396	31308	1.94	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5605	18401	31315	2.55	0.0E+00	U36281.1	NT	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
							Human beta-prime-adaptin (BAM22) gene, exon 13

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5636	18431	31344	1.03	0.0E+00	AB046861.1	NT	Homo sapiens mRNA for KIAA1841 protein, partial cds
5691	18485	31404	1.56	0.0E+00	AJ008345.1	NT	Homo sapiens KVLQT1 gene
5691	18485	31405	1.56	0.0E+00	AJ008345.1	NT	Homo sapiens KVLQT1 gene
5699	18483	31416	1.19	0.0E+00	AJ207616.1	EST_HUMAN	HA2081 Human fetal liver cDNA library Homo sapiens cDNA
5717	18509	31430	6.23	0.0E+00	11416801	NT	Homo sapiens protocadherin beta 2 (PCDH22), mRNA
5722	18514	31433	1.21	0.0E+00	BE791173.1	EST_HUMAN	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938551 5'
5731	18523	31444	1.13	0.0E+00	9988943	NT	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
5732	18524	31445	6.59	0.0E+00	BE600082.1	EST_HUMAN	601345141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677843 5'
5733	18526	31446	1.67	0.0E+00	10048478	NT	Mus musculus ezrinin (Acz), mRNA
5734	18528	31447	4.05	0.0E+00	U86981.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5734	18526	31448	4.05	0.0E+00	U86981.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5752	18544	31486	2.28	0.0E+00	BF338835.1	EST_HUMAN	602036272F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4184321 5'
5756	18548	31489	1.03	0.0E+00	AF142821.1	NT	Homo sapiens calcium channel gamma 5 subunit (CACNG5) gene, exon 4 and complete cds
5757	18549	31470	3.06	0.0E+00	BE273983.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5768	18559	31488	0.88	0.0E+00	BE503098.1	EST_HUMAN	h283d11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214581 3' similar to TR:Q62084 Q62084
5773	18564	31493	1.87	0.0E+00	BF568905.1	EST_HUMAN	PHOSPHOLIPASE C NEIGHBORING ;
5778	18569	31497	1.21	0.0E+00	AA454642.1	EST_HUMAN	60215552F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
5811	18600	31528	2.38	0.0E+00	AF217289.1	NT	z09d06.st Soares NIH-IMPu_ST Homo sapiens cDNA clone IMAGE:311883 3'
5813	18602	31530	1.75	0.0E+00	BE828144.1	EST_HUMAN	z09d06.st Soares NIH-IMPu_ST Homo sapiens cDNA clone IMAGE:311883 3'
5818	18607	31535	2.27	0.0E+00	BE668638.1	EST_HUMAN	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
5831	18620	31552	0.55	0.0E+00	BE673986.1	EST_HUMAN	RC5-ET0027-210600-022-G10 ET0027 Homo sapiens cDNA
5831	18620	31553	0.55	0.0E+00	BE673986.1	EST_HUMAN	RC5-ET0027-210600-022-G10 ET0027 Homo sapiens cDNA
5836	18625	31559	1.14	0.0E+00	AW278700.1	EST_HUMAN	60164528F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3830453 5'
5847	18634	31571	1.16	0.0E+00	BF031742.1	EST_HUMAN	60164528F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5847	18634	31572	1.16	0.0E+00	BF031742.1	EST_HUMAN	7d72e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5859	18648	31587	0.58	0.0E+00	AW470848.1	EST_HUMAN	P51843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1];
5872	18659	31599	0.77	0.0E+00	BF155670.1	EST_HUMAN	P51843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1];
							7d72e11.x1 NCI_CGAP_Ov39 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
							P51843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1];
							7d72e11.x1 NCI_CGAP_Ov39 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
							XP6503.X1 NCI_CGAP_Ov39 Homo sapiens cDNA clone IMAGE:2745245 3' similar to TR:P78335 P78335
							GUANYLATE KINASE ASSOCIATED PROTEIN, ;
							601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
							601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
							h234d06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875595 3' similar to TR:Q9Z1N3
							Q9Z1N3 MYOSIN-RHO GAP PROTEIN, MYR 7, ;
							QV44HT0894-280800-398-a10 HT0894 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5872	18659	31600	0.77	0.0E+00	BF155670.1	EST_HUMAN	QV4-HT0894-280600-398-a10 HT0894 Homo sapiens cDNA
5878	18684	31604	3.22	0.0E+00	W33069.1	EST_HUMAN	zc08h08.r1 Soares_parrathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
5878	18684	31605	3.22	0.0E+00	W33069.1	EST_HUMAN	zc08h08.r1 Soares_parrathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
5879	18685		2.51	0.0E+00	AF012618.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
5882	18688	31609	3.33	0.0E+00	BE280197.1	EST_HUMAN	601158515F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505323 5'
5900	18675	31620	2.6	0.0E+00	BE880610.1	EST_HUMAN	601512630F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914238 5'
5905	18690	31639	0.6	0.0E+00	AW752848.1	EST_HUMAN	IL3-CT02220-11189-028-E04 CT0220 Homo sapiens cDNA
5908	18692	31641	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
5908	18692	31642	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
5908	18693	31643	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5909	18693	31644	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5909	18693	31645	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5923	25081	31661	10.66	0.0E+00	9789898	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA
5928	18710	31664	1.2	0.0E+00	AA183506.1	EST_HUMAN	zr40h01.r1 Soares_NbHPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42894 HYPOTHETICAL MYELOID CELL LINE PROTEIN 6.;
5928	18710	31665	1.2	0.0E+00	AA183506.1	EST_HUMAN	zr40h01.r1 Soares_NbHPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42894 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.;
5948	18730	31689	16.77	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
5948	18730	31690	16.77	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
5987	18768	31732	0.99	0.0E+00	BE288330.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355585 5'
5997	18778	31740	1.2	0.0E+00	BE156561.1	EST_HUMAN	QV0-HT0368-090200-099-e09 HT0368 Homo sapiens cDNA
6007	18788	31750	0.85	0.0E+00	M38107.1	NT	Human neurofibromatosis type 1 (NF-1) mRNA, 3' end of cds
6040	18820	31781	1.32	0.0E+00	BE378007.1	EST_HUMAN	601236270F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608490 5'
6046	18826	31787	1.39	0.0E+00	AU137772.1	EST_HUMAN	AU137772 PLACE1 Homo sapiens cDNA clone IMAGE:3608490 5'
6066	18845	31809	3.76	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-6 gene, complete cds
6094	18872	31839	4.52	0.0E+00	AA204740.1	EST_HUMAN	zr61d03.r1 Strategene HNT neuron (#537233) Homo sapiens cDNA clone IMAGE:648005 5' similar to TR:G854195 G854195 LEUKOCYTE SURFACE PROTEIN.;
6095	18873	31840	3.97	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6095	18873	31841	3.97	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6129	18907	31875	1.14	0.0E+00	11426387	NT	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
6133	18911	31880	2.87	0.0E+00	BE257173.1	EST_HUMAN	601109532F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350622 5'
6147	18924		0.85	0.0E+00	A1886048.1	EST_HUMAN	tt81f10.x1 NCJ_CGAP_P28 Homo sapiens cDNA clone IMAGE:2248939 3' similar to TR:Q14839 Q14839 MI-2 PROTEIN.;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6151	18928	31897	1.53	0.0E+00	L35830.1	NT	Human anion exchanger (AE1) gene, exons 1-20
6159	18936	31903	1.22	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6159	18936	31904	1.22	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6170	18947	31919	0.57	0.0E+00	A1198025.1	EST_HUMAN	q50b11.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838 TFIIIC ALPHA SUBUNIT
6170	18947	31920	0.57	0.0E+00	A1198025.1	EST_HUMAN	q50b11.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838 TFIIIC ALPHA SUBUNIT
6172	18949	31921	0.85	0.0E+00	BF357123.1	EST_HUMAN	MR0-HT0823-220800-102-b05 HT0823 Homo sapiens cDNA
6180	18957	31931	1.08	0.0E+00	11435830	NT	Homo sapiens peptide transporter 3 (LOC51286), mRNA
6189	18966	31939	0.85	0.0E+00	D56649.1	NT	Human mRNA for alpha mannosidase II isozyme, complete cds
6207	18982	31961	1.03	0.0E+00	AW178142.1	EST_HUMAN	IL3-HT0062-010999-014-A04 HT0062 Homo sapiens cDNA
6228	19002	31978	0.66	0.0E+00	BE674544.1	EST_HUMAN	7a02c12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3281302 3' similar to SW:Y176_HUMAN Q14881 HYPOTHETICAL PROTEIN KIAA0176
6232	19006	31983	1.33	0.0E+00	7062039	NT	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
6246	19020		8.59	0.0E+00	AV650020.1	EST_HUMAN	AV650020 GLC Homo sapiens cDNA clone GLC/CAD09 3'
6254	19028	32003	3.13	0.0E+00	AW675568.1	EST_HUMAN	UI-HF-BLO-eco-g-12-0-ULe1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058751 3'
6257	19031	32006	6.28	0.0E+00	H01255.1	EST_HUMAN	y27b03.r1 Soares placenta Nbz2-IP Homo sapiens cDNA clone IMAGE:149833 5'
6269	19042	32019	1.6	0.0E+00	X15377.1	NT	Human gene for the light and heavy chains of myeloperoxidase
6271	19044	32021	0.85	0.0E+00	AA458375.1	EST_HUMAN	aa14407.r1 Soares NIH-MIPu_S1 Homo sapiens cDNA clone IMAGE:813252 5'
6272	19045	32022	1.3	0.0E+00	AI612841.1	EST_HUMAN	ts57d08.x1 NCI_CGAP_Ov35 Homo sapiens cDNA clone IMAGE:2282687 3' similar to SW:NTCS_HUMAN P63796 SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2
6278	19051	32028	4.71	0.0E+00	BE735989.1	EST_HUMAN	601305398F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639618 5'
6278	19051	32029	4.71	0.0E+00	BE735989.1	EST_HUMAN	601305398F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639618 5'
6282	19055	32035	0.86	0.0E+00	AW748596.1	EST_HUMAN	MR0-BT0284-221199-002-f11 BT0284 Homo sapiens cDNA
6282	19055	32036	0.86	0.0E+00	AW748596.1	EST_HUMAN	MR0-BT0284-221199-002-f11 BT0284 Homo sapiens cDNA
6283	19056		0.6	0.0E+00	U77629.1	NT	Homo sapiens Achele-Scute homologue 2 (ASCL2) gene, complete cds
6285	19058	32036	15.59	0.0E+00	AU119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6285	19058	32039	15.59	0.0E+00	AU119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6289	19062	32044	0.8	0.0E+00	BE780453.1	EST_HUMAN	601468712F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3871800 5'
6290	19063	32045	1.12	0.0E+00	X92217.1	NT	H. sapiens germline immunoglobulin heavy chain, variable region, (13-2)
6304	19076	32062	1.52	0.0E+00	AI889483.1	EST_HUMAN	wa25c07.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2498220 3'
6317	19088	32072	6.91	0.0E+00	BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887963 5'
6317	19088	32073	6.91	0.0E+00	BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887963 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6355	19125	32119	0.58	0.0E+00	BF057438.1	EST_HUMAN	7443H05.x1 NCL_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3478496 3' similar to TR:O14553 O14553 R31240.1;
6388	19167	32157	1.89	0.0E+00	AW406348.1	EST_HUMAN	UI-HF-BLO-eco-h-02-0-UI-1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6388	19157	32158	1.89	0.0E+00	AW406348.1	EST_HUMAN	UI-HF-BLO-eco-h-02-0-UI-1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6418	19186	32184	0.79	0.0E+00	AV719444.1	EST_HUMAN	AV719444 GLC Homo sapiens cDNA clone GLCEHC06 5'
6427	19195	32191	0.98	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6427	19195	32192	0.98	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
8430	19188	32195	2.24	0.0E+00	AF190860.1	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CAGNA1G) mRNA, complete cds
8433	19201	32197	1.17	0.0E+00	11420658	NT	Homo sapiens transformation/transcription domain-associated protein (TRRAP), mRNA
8440	19208	32204	7.5	0.0E+00	AW163840.1	EST_HUMAN	su06h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O16380 O15390 GT24. [3] TR:O43840 TR:O43206;
8440	19208	32205	7.5	0.0E+00	AW163840.1	EST_HUMAN	su06h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206;
8444	19212	32208	0.97	0.0E+00	W37163.1	EST_HUMAN	zb20e06.r1 Soares fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45;
8444	19212	32209	0.97	0.0E+00	W37163.1	EST_HUMAN	zb20e06.r1 Soares fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45;
8459	19226	32226	1.08	0.0E+00	BE794853.1	EST_HUMAN	601588371F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943504 5'
8468	19233	32233	6.91	0.0E+00	BE799873.1	EST_HUMAN	601587561F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941847 5'
8467	19234	32234	0.56	0.0E+00	BE767855.1	EST_HUMAN	QV1-GN0065-140800-318-h02 GN0065 Homo sapiens cDNA
8467	19234	32235	0.56	0.0E+00	BE767855.1	EST_HUMAN	QV1-GN0065-140800-318-h02 GN0065 Homo sapiens cDNA
8471	19238	32238	6.95	0.0E+00	BE888113.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
8471	19238	32239	6.95	0.0E+00	BE888113.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
8480	19247	32247	5.62	0.0E+00	L24483.1	NT	Human antigen CD27 gene, exons 1-2
8485	19252	32251	1.98	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8485	19252	32252	1.98	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8491	19258	32259	4.06	0.0E+00	6005983	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZF3A), mRNA
8494	19260	32261	4.76	0.0E+00	A1638412.1	EST_HUMAN	tt31f11.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2242413 3' similar to SW:WNT3_MOUSE
8495	19261	32262	1.36	0.0E+00	L32832.1	NT	PT17593 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR;
8507	19272	32273	4.12	0.0E+00	AA434584.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
8520	19286		0.99	0.0E+00	BF217200.1	EST_HUMAN	zw52e03.r1 Soares total_fetus_Nb2-IF8_9w Homo sapiens cDNA clone IMAGE:773668 5'
8523	19289	32293	1.82	0.0E+00	BE925875.1	EST_HUMAN	601885317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103693 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6554	19319	32325	1.11	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6554	19319	32328	1.11	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6571	19336	32346	1.8	0.0E+00	AU125928.1	EST_HUMAN	AU125928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
6573	19337	32348	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-110 NN0174 Homo sapiens cDNA
6573	19337	32349	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-110 NN0174 Homo sapiens cDNA
6594	19357	32371	1.87	0.0E+00	BE142363.1	EST_HUMAN	CM0-HT0143-270989-062-408 HT0143 Homo sapiens cDNA
6614	19377	32391	1.44	0.0E+00	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-404 BN0121 Homo sapiens cDNA
6614	19377	32392	1.44	0.0E+00	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-404 BN0121 Homo sapiens cDNA
6638	19400	32415	8.38	0.0E+00	BE169131.1	EST_HUMAN	PM3-HT0520-230200-002-008 HT0520 Homo sapiens cDNA
6640	19402	32417	1.83	0.0E+00	BF085687.1	EST_HUMAN	IL5-GN0032-180900-145-407 GN0032 Homo sapiens cDNA
6678	19585	32633	3.49	0.0E+00	AA190755.1	EST_HUMAN	zp88e03.r1 Strategene HeLa cell s3 837216 Homo sapiens cDNA clone IMAGE:627292 5'
6690	19607	32647	0.94	0.0E+00	U39573.1	NT	Human salivary peroxidase mRNA, complete cds
6693	19610	32649	0.91	0.0E+00	BE571987.1	EST_HUMAN	7a49b07.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3222037 3' similar to TR:Q9Z285 Q8Z285 TEKIN. ;
6703	19618	32660	6.69	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6703	19618	32661	6.69	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6714	19629	32674	1.91	0.0E+00	11435628	NT	Homo sapiens CD8 antigen (CD8), mRNA
6726	19560	32592	0.99	0.0E+00	AL042443.1	EST_HUMAN	DKFZp434D2021_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434D2021 5'
6728	19563	32595	0.9	0.0E+00	A196270.1	EST_HUMAN	cc10d01.x1 Soares NSF_F8 gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1585761 3' similar to TR:Q26623 Q26623 TEKIN C1. ;
6734	19568	32600	0.83	0.0E+00	BE734087.1	EST_HUMAN	601567370F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842080 5'
6752	17921	30566	1.88	0.0E+00	BE566381.1	EST_HUMAN	601339977F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3982267 5'
6761	17930	30565	11.84	0.0E+00	BE867889.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
6761	17930	30566	11.84	0.0E+00	BE867889.1	EST_HUMAN	601443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
6766	19510	32535	2.2	0.0E+00	BE550162.1	EST_HUMAN	7b46f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95. ;
6766	19510	32536	2.2	0.0E+00	BE550162.1	EST_HUMAN	7b46f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95. ;
6790	19534	32562	1.25	0.0E+00	BF086376.1	EST_HUMAN	CM1-HT0877-060900-397-g11 HT0877 Homo sapiens cDNA
6798	19540	32568	2.48	0.0E+00	AA195106.1	EST_HUMAN	zr34g03.r1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:666332 5'
6803	19484		12.37	0.0E+00	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6805	19468	32487	1.08	0.0E+00	11431474	NT	Homo sapiens sodium channel, nonvoltage-gated 1, beta (Liddle syndrome) (SCNN1B), mRNA
6807	19468	32490	0.8	0.0E+00	BE313076.1	EST_HUMAN	601150682F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6807	19468	32491	0.6	0.0E+00	BE313075.1	EST_HUMAN	601150682F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6822	19483	32505	2.98	0.0E+00	BF569905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310078 5'
6837	19499		2.32	0.0E+00	J03069.1	NT	Human MYGL2 gene, complete cds
6845	19545	32573	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6845	19545	32574	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6846	19546	32575	1.18	0.0E+00	M38113.1	NT	Human neurofibromatosis type 1 gene, exon x8
6858	17935	30571	3.2	0.0E+00	11420775	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
6859	17936	30572	0.74	0.0E+00	A1419969.1	EST_HUMAN	tg53c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN ;
6859	17936	30573	0.74	0.0E+00	A1419969.1	EST_HUMAN	tg53c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN ;
6863	17940	30576	0.78	0.0E+00	BE256708.1	EST_HUMAN	601115515F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3356330 5'
6874	17950	30546	0.58	0.0E+00	BE804955.1	EST_HUMAN	601496743F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898739 5'
6884	17960	30514	1.05	0.0E+00	AJ118478.1	EST_HUMAN	AU118478 HEMBA1 Homo sapiens cDNA clone HEMBA1003679 5'
6887	17963	30518	8.08	0.0E+00	BE282941.1	EST_HUMAN	601148954F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3501829 5'
6898	17964	30519	2.28	0.0E+00	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6898	17964	30520	2.26	0.0E+00	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6898	17965	30521	3.26	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6899	17965	30522	3.26	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6894	17970	30527	1.06	0.0E+00	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
6899	19637	32681	1.03	0.0E+00	BE762770.1	EST_HUMAN	QV3-NT0022-140600-223-f01 NT0022 Homo sapiens cDNA
6904	19642	32687	2.37	0.0E+00	BF569906.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310078 5'
6908	19646	32692	4.53	0.0E+00	L01978.1	NT	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
6913	19650	32698	0.79	0.0E+00	AW502362.1	EST_HUMAN	UI-HF-BR0p-aka-d-10-0-JUL1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
6913	19650	32697	0.79	0.0E+00	AW502362.1	EST_HUMAN	UI-HF-BR0p-aka-d-10-0-JUL1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
6922	19658	32704	0.7	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2211 5'
6922	19658	32705	0.7	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2211 5'
6929	19665	32711	5.87	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
6934	19669	32715	2.33	0.0E+00	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
6972	19454	32474	1.18	0.0E+00	AL049784.1	NT	Novel human gene mapping to chromosome 13
7008	19700	32754	0.65	0.0E+00	AB026993.1	NT	Homo sapiens mRNA for vesicular cadherin-2, complete cds

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7008	19700	32755	0.83	0.0E+00	AB028893.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7013	19705	32761	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7013	19705	32762	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7019	19711	32768	1.2	0.0E+00	AW954806.1	EST_HUMAN	EST366876 MAGE resequences, MAGE Homo sapiens cDNA
7020	19712	32769	0.9	0.0E+00	BE254103.1	EST_HUMAN	601113958F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354566 5'
7033	19725	32781	0.98	0.0E+00	L01973.1	NT	Human type VI sodium channel alpha polypeptide (SCN4A) gene, exon 14
7041	19732	32791	0.84	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0468 protein, partial cds
7041	19732	32792	0.84	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0468 protein, partial cds
7047	19738	32799	2.73	0.0E+00	AU133213.1	EST_HUMAN	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001556 5'
7062	19753	32818	0.96	0.0E+00	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
7064	19755	32820	0.56	0.0E+00	AA312125.1	EST_HUMAN	EST182818 Jurkat T-cells VI Homo sapiens cDNA 5' end
7069	19760		2.57	0.0E+00	AU143706.1	EST_HUMAN	AU143706 Y79AA1 Homo sapiens cDNA clone Y79AA1002365 5'
7070	19761	32825	0.94	0.0E+00	4758839	NT	Homo sapiens netrin 1 (NTN1), mRNA
7079	19770	32834	1.32	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7079	19770	32835	1.32	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7100	17981	30495	2.54	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7100	17981	30496	2.54	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7122	19810	32876	5.01	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7122	19810	32877	5.01	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7137	19824	32891	0.55	0.0E+00	AF227744.1	NT	Homo sapiens voltage-dependent calcium channel alpha 1G subunit isoform ae (CACNA1G) mRNA, complete cds
7156	19843	32911	37.67	0.0E+00	A1128344.1	EST_HUMAN	qc87a07.x1 Soares_placenta_8tc0weeks_2NbhHP8tc9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL-SULFATASE D PRECURSOR, contains element HGR repetitive element;
7156	19843	32912	37.67	0.0E+00	A1128344.1	EST_HUMAN	qc87a07.x1 Soares_placenta_8tc0weeks_2NbhHP8tc9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL-SULFATASE D PRECURSOR, contains element HGR repetitive element;
7158	19845	32914	0.66	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7158	19845	32915	0.66	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7161	19848	32918	4.65	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7161	19848	32919	4.65	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7163	19850		15.23	0.0E+00	BF337375.1	EST_HUMAN	602035089F1 NC1 CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4182839 5'
7165	19852	32921	2.85	0.0E+00	AA128453.1	EST_HUMAN	zr60f09.r1 Stratigene muscle 937208 Homo sapiens cDNA clone IMAGE:592601 5' similar to TR:G808562 G808562 NIEBLIN.;

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7170	19856	32927	0.7	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0228_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0228 5'
7170	19856	32928	0.7	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0228_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0228 5'
7208	19863	32969	1.09	0.0E+00	BE295490.1	EST_HUMAN	601174578F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529794 5'
7210	19865	32970	1	0.0E+00	11427965	NT	Homo sapiens hypothetical protein (FLJ20281), mRNA
7213	19868		1.42	0.0E+00	AU118607.1	EST_HUMAN	AU118607 HEMBA1 Homo sapiens cDNA clone HEMBA1003969 5'
7214	19869	32973	1.96	0.0E+00	AF005213.1	NT	Homo sapiens ankryrin 1 (ANK1) mRNA, complete cds
7214	19869	32974	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankryrin 1 (ANK1) mRNA, complete cds
7226	19871	32984	0.87	0.0E+00	AF245505.1	NT	Homo sapiens adiccan mRNA, complete cds
7232	19877	32989	8.04	0.0E+00	X70172.1	NT	H. sapiens DNA for ZNGP2 pseudogene, exon 4
7234	19879	32991	8.51	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7234	19879	32992	8.51	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7247	19832	33007	0.86	0.0E+00	AW956503.1	EST_HUMAN	EST368573 MAGC resequences, MAGD Homo sapiens cDNA
7249	19834	33009	0.56	0.0E+00	BE672445.1	EST_HUMAN	7a60h08.x1 NCL_CGAP_G06 Homo sapiens cDNA clone IMAGE:3223167 3' similar to gb:M54911_ma1 IG
7250	19835	33010	2.52	0.0E+00	AW950516.1	EST_HUMAN	HEAVY CHAIN PRECURSOR V-II REGION (HUMAN);
7273	19857	33033	0.67	0.0E+00	AF001543.1	EST_HUMAN	EST362586 MAGC resequences, MAGA Homo sapiens cDNA
7273	19857	33034	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7273	19857	33035	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7292	19875		0.66	0.0E+00	M60354.1	NT	Human BTF3 protein homologue gene, complete cds
7293	19876	33053	0.98	0.0E+00	BE408293.1	EST_HUMAN	601302679F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3637434 5'
7305	19888	33064	0.6	0.0E+00	AW402542.1	EST_HUMAN	UI-HF-BK0-ss-g-07-0-JLr1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054924 5'
7322	20005		1.43	0.0E+00	R87430.1	EST_HUMAN	ym88h10.r1 Soares adult brain N2b-4B55Y Homo sapiens cDNA clone IMAGE:166051 5'
7323	20006		1.88	0.0E+00	AW238326.1	EST_HUMAN	xs39a05.y1 NCL_CGAP_Lu31 Homo sapiens cDNA clone IMAGE:2578840 5' similar to TR:Q08050 Q08050
7342	20023	33083	1.31	0.0E+00	AU117553.1	EST_HUMAN	HNF3/FH TRANSCRIPTION FACTOR GENESIS ;
7344	20025	33101	3.67	0.0E+00	11427135	NT	AU117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5'
7366	20046	33125	0.58	0.0E+00	BF229235.1	EST_HUMAN	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
7372	20052	33133	0.67	0.0E+00	L32832.1	NT	MR0-AN0083-27000-004-07 AN0083 Homo sapiens cDNA
7397	20075	33154	1.18	0.0E+00	BF306696.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
7397	20075	33155	1.18	0.0E+00	BF306696.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7406	20083	33166	0.92	0.0E+00	AU118767.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7480	20133	33223	4.16	0.0E+00	A1752561.1	EST_HUMAN	AU118767 HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5'
							cn17405.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17405 random

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7460	20133	33224	4.16	0.0E+00	AI72561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
7535	20205	33301	1.83	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7535	20205	33302	1.83	0.0E+00	AF064205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7543	20213	33313	1.14	0.0E+00	U74315.1	EST_HUMAN	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7557	20227	33330	1.1	0.0E+00	11417342	NT	HSU74315 Human chromosome 14 Homo sapiens cDNA clone 1-4
7570	20239	33343	2.28	0.0E+00	AW672785.1	EST_HUMAN	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (sema4) 5A (SEMA5A), mRNA
7570	20239	33344	2.28	0.0E+00	AW672785.1	EST_HUMAN	ba01e08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823106 5' similar to SW:P101_PIG O02698 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT ;
7586	20264	33360	1.97	0.0E+00	AI825504.1	EST_HUMAN	ba01e06.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823106 5' similar to SW:P101_PIG O02698 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT ;
7586	20254	33361	1.97	0.0E+00	AI825504.1	EST_HUMAN	wb17g05.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 AIBC1 ;
7594	20262	33370	1.51	0.0E+00	6912735	NT	wb17g05.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 AIBC1 ;
7599	20285	33373	1.09	0.0E+00	N76126.1	EST_HUMAN	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7604	20270	33377	5.87	0.0E+00	BF217905.1	EST_HUMAN	za86e05.s1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:289456 3'
7613	20279	33387	5.41	0.0E+00	AU129622.1	EST_HUMAN	601885465F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103728 5'
7633	25117	33406	0.97	0.0E+00	AW069274.1	EST_HUMAN	AU129622 NT2RP2 Homo sapiens cDNA clone NT2RP2005913 5'
7636	25117	33407	0.97	0.0E+00	AW069274.1	EST_HUMAN	cr42e09.x1 Jla bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e09 3'
7636	20301	33409	6.26	0.0E+00	4501848	NT	cr42e09.x1 Jla bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42e09 3'
7643	20308	33416	1.13	0.0E+00	AV758467.1	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7645	20309	33417	6.31	0.0E+00	BE739870.1	EST_HUMAN	AV758467 BM Homo sapiens cDNA clone BMFBG305 5'
7645	20309	33418	6.31	0.0E+00	BE739870.1	EST_HUMAN	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7646	20310	33419	1.18	0.0E+00	6912461	NT	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7646	20310	33420	1.18	0.0E+00	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; actin receptor interacting protein 1 (KIAA0705), mRNA
7647	20311	33421	0.71	0.0E+00	AU120424.1	EST_HUMAN	Homo sapiens atrophin-1 interacting protein 1; actin receptor interacting protein 1 (KIAA0705), mRNA
7647	20311	33422	0.71	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000855 5'
7680	20344	33456	1.81	0.0E+00	BE787610.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000855 5'

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7680	20344	33457	1.81	0.0E+00	BE767810.1	EST_HUMAN	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'
7720	20384	33498	0.63	0.0E+00	W52873.1	EST_HUMAN	zc80f10.r1 Pancreatic Islet Homo sapiens cDNA clone IMAGE:338443 5'
7734	20398	33513	0.56	0.0E+00	AW402332.1	EST_HUMAN	UI-HF-BKO-aal-b-06-Q-UI.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3053915 5'
7735	20400	33515	0.76	0.0E+00	AA760692.1	EST_HUMAN	nzt13a08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gb:U01828
7735	20400	33516	0.76	0.0E+00	AA760692.1	EST_HUMAN	MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7752	20448	33572	0.84	0.0E+00	AU133187.1	EST_HUMAN	MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7812	20507	33630	0.82	0.0E+00	BE313013.1	EST_HUMAN	AU133187 NT2RP4 Homo sapiens cDNA clone NT2RP4001507 5'
7824	20519	33645	1.13	0.0E+00	AA149791.1	EST_HUMAN	601150347F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503050 5'
7837	20532	33659	0.84	0.0E+00	BF026828.1	EST_HUMAN	z601c06.r1 Stratagene colon (#637204) Homo sapiens cDNA clone IMAGE:568410 5'
7849	20544	33672	0.45	0.0E+00	AA017021.1	EST_HUMAN	601672310F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955131 5'
7886	20561	33688	2.31	0.0E+00	BE736046.1	EST_HUMAN	z633h08.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360831 5'
7881	20576	33703	10.46	0.0E+00	M34872.1	NT	601305658F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639903 5'
7881	20576	33704	10.46	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7909	20604	33734	0.74	0.0E+00	AW674581.1	EST_HUMAN	Human amyloid-beta protein (APP) gene, exon 11
7909	20604	33735	0.74	0.0E+00	AW674581.1	EST_HUMAN	bb34d02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O64652 O64652
7916	20611	33741	3.91	0.0E+00	AA397551.1	EST_HUMAN	F17K2.26 PROTEIN.;
7918	20613	33742	1.41	0.0E+00	AW387131.1	EST_HUMAN	F17K2.26 PROTEIN.;
7921	20616		0.73	0.0E+00	AB020691.1	NT	z681b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
7922	20617	33744	7.02	0.0E+00	AU142402.1	EST_HUMAN	G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
7926	20621	33748	1.63	0.0E+00	BE388421.1	EST_HUMAN	MR0-ST0031-081000-003-a11 ST0031 Homo sapiens cDNA
7926	20621	33749	1.53	0.0E+00	BE388421.1	EST_HUMAN	Homo sapiens mRNA for KIAA0884 protein, partial cds
7942	20637	33784	1.09	0.0E+00	W65278.1	EST_HUMAN	AU142402 Y78AA1 Homo sapiens cDNA clone Y78AA1000277 5'
7942	20637	33785	1.09	0.0E+00	W65278.1	EST_HUMAN	AU1285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7944	20638		6.89	0.0E+00	BF573096.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7948	20643		0.57	0.0E+00	AU134114.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7962	20657	33782	0.95	0.0E+00	BF525534.1	EST_HUMAN	z605d01.r1 Soares fetal_heart_NbH19W Homo sapiens cDNA clone IMAGE:358081 5'
7962	20657	33783	0.95	0.0E+00	BF525534.1	EST_HUMAN	z605d01.r1 Soares fetal_heart_NbH19W Homo sapiens cDNA clone IMAGE:358081 5'
7962	20657	33813	1.59	0.0E+00	AL120124.1	EST_HUMAN	602153008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294128 5'
7962	20657	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	602153008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294128 5'
7962	20657	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	AU134114 OVARC1 Homo sapiens cDNA clone OVARC1001298 5'
7962	20657	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	AU134114 OVARC1 Homo sapiens cDNA clone OVARC1001298 5'
7962	20657	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	602069632F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4212727 5'
7962	20657	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	602069632F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4212727 5'
7962	20657	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P092_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761P092 5'
7962	20657	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P092_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761P092 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8035	20730		1.32	0.0E+00	BE877693.1	EST_HUMAN	601485254F1 NIH_MGC_99 Homo sapiens cDNA clone IMAGE:3887773 5'
8057	20751	33882	2.48	0.0E+00	AW500549.1	EST_HUMAN	UI-HF-BN0-alk-f01-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077486 5'
8065	20759	33888	16.05	0.0E+00	AW157233.1	EST_HUMAN	eu63b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to TR:060463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1]; xao7d12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2567639 3' similar to contains element OFR repetitive element;
8082	20776	33908	0.68	0.0E+00	AW072395.1	EST_HUMAN	Homo sapiens centrosomal protein 2 (CEP2), mRNA
8099	20783	33924	1.09	0.0E+00	11421722	NT	zsa36d05.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:294633 5'
8102	20796	33927	1.07	0.0E+00	W01616.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926998 5'
8104	20798	33929	1.22	0.0E+00	BE745697.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926998 5'
8104	20798	33930	1.22	0.0E+00	BE745597.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926998 5'
8115	20809	33943	1.46	0.0E+00	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8154	20848	33980	0.95	0.0E+00	AJ367350.1	EST_HUMAN	qvo5c12.x1 NCL CGAP_U12 Homo sapiens cDNA clone IMAGE:1988334 3' similar to TR:Q14673 Q14673
8165	20869	33991	2.93	0.0E+00	BE874157.1	EST_HUMAN	KIAA0164 PROTEIN.; 7d76a04.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278662 3' similar to TR:O95793 O95793 STAUFEN PROTEIN.;
8167	20861	33993	1.19	0.0E+00	AJ885671.1	EST_HUMAN	w60b10.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2429275 3' similar to SW:COGT_HUMAN P50281 MATRIX METALLOPROTEINASE-14 PRECURSOR;
8180	20874	34009	1.07	0.0E+00	BE563850.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8180	20874	34010	1.07	0.0E+00	BE563850.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8189	20883	34020	1.63	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8189	20883	34021	1.63	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8191	20885	34023	3.2	0.0E+00	AA403192.1	EST_HUMAN	zve6602.r1 Soares total fetus Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8191	20885	34024	3.2	0.0E+00	AA403192.1	EST_HUMAN	zve6602.r1 Soares total fetus Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8231	20925		4.53	0.0E+00	AA398511.1	EST_HUMAN	z73a08.a1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:727958 3' similar to gb:S85655 PROHIBITIN (HUMAN);
8240	20934	34071	0.55	0.0E+00	BE837593.1	EST_HUMAN	RC2-FN0094-120600-013-h07 FN0094 Homo sapiens cDNA
8241	20935	34072	1.17	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221299-046-c07 DT0045 Homo sapiens cDNA
8241	20935	34073	1.17	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221299-046-c07 DT0045 Homo sapiens cDNA
8260	20954	34092	1.88	0.0E+00	BE612586.1	EST_HUMAN	601452412F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856179 5'
8260	20954	34093	1.88	0.0E+00	BE612586.1	EST_HUMAN	601452412F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856179 5'
8275	20969	34110	1.52	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8275	20969	34111	1.52	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8288	20980	34120	1.3	0.0E+00	AI884477.1	EST_HUMAN	hm33at11.x1 NCI_CGAP_U4 Homo sapiens cDNA clone IMAGE:2437724 3' similar to TR:O75457 O75457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.;
8293	20987	34126	1.27	0.0E+00	AA502294.1	EST_HUMAN	ne2d10.a1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:882259 3' similar to TR:G1138434
8305	20992		0.59	0.0E+00	11416798	NT	Homo sapiens probocadherin beta 3 (PCDH13), mRNA
8308	20999	34137	1.02	0.0E+00	AI880780.1	EST_HUMAN	hs04f11.x1 Scores pregnant uterus_NHPU Homo sapiens cDNA clone IMAGE:2043117 3'
8334	21027	34163	1.84	0.0E+00	BE890787.1	EST_HUMAN	601431238F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916569 5'
8334	21027	34164	0.72	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8335	21028	34165	0.72	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8335	21028	34166	2.24	0.0E+00	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8339	21032	34169	2.24	0.0E+00	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8339	21032	34170	0.59	0.0E+00	U88084.1	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8404	21097	34233	0.59	0.0E+00	U88084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8409	21102	34239	0.66	0.0E+00	AI251760.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8409	21102	34240	2.63	0.0E+00	X98922.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and XLalphas (partial) genes
8409	21102	34241	2.63	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8424	21117	34255	2.63	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8465	21157	34300	0.68	0.0E+00	U82979.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8465	21157	34301	0.88	0.0E+00	AF022855.1	NT	Human immunoglobulin-like transcript-3 mRNA, complete cds
8468	21160	34303	0.88	0.0E+00	AF022855.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8483	21175	34320	2.28	0.0E+00	AU131671.1	EST_HUMAN	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
			0.65	0.0E+00	11426572	NT	AU131671 NT2RP3 Homo sapiens cDNA clone NT2RP3003016 5'
8487	21179		1.92	0.0E+00	AW513513.1	EST_HUMAN	Homo sapiens immunoglobulin superfamily, member 2 (IGSF2), mRNA
8489	21181	34323		0.0E+00	AW513513.1	EST_HUMAN	hs04601.x1 NCI_CGAP_U1 Homo sapiens cDNA clone IMAGE:2707032 3' similar to gb:M14123_cds4 RETROVIRUS-RELATED POLYPROTEIN (HUMAN);
8520	21212	34358	14.55	0.0E+00	D52650.1	EST_HUMAN	HUM084C02B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-084C02 5'
8526	21218	34360	4.04	0.0E+00	BE378495.1	EST_HUMAN	601236488F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608709 5'
8528	21220		2.58	0.0E+00	AA410545.1	EST_HUMAN	z32a04.r1 Scores ovary tumor NblHOT Homo sapiens cDNA clone IMAGE:724082 5'
			2.91	0.0E+00	BF313946.1	EST_HUMAN	601800571F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128744 5'
8535	21227	34369	0.52	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
8540	21232	34374	1.46	0.0E+00	AW139873.1	EST_HUMAN	U1-H-B11-adr-e-12-0-U1.at NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'
8540	21232	34375	1.46	0.0E+00	AW139873.1	EST_HUMAN	U1-H-B11-adr-e-12-0-U1.at NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8545	21237		0.49	0.0E+00	A1840180.1	EST_HUMAN	w830b10.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2299579 3' similar to TR:O15044
8564	21256	34393	0.76	0.0E+00	BF377897.1	EST_HUMAN	O15044 KIAA0335.
8574	21266	34408	0.59	0.0E+00	AL163301.2	NT	CM1-TN0141-260900-439-008 TN0141 Homo sapiens cDNA
8580	21272	34410	5.89	0.0E+00	BE280272.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C101
8585	21277	34414	2.51	0.0E+00	BF700165.1	EST_HUMAN	601150051F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502836 5'
8595	21277	34415	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8595	21277	34416	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8600	21292	34434	0.53	0.0E+00	A1498722.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8626	21318	34460	0.86	0.0E+00	AL449770.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8631	21323	34464	7.75	0.0E+00	AA962527.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8637	21329	34472	3.09	0.0E+00	10947037	NT	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8637	21329	34473	3.09	0.0E+00	10947037	NT	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8660	21352	34469	1.3	0.0E+00	Y11107.3	NT	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8662	21354	34501	1.62	0.0E+00	BE279817.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8672	21364		1.91	0.0E+00	AV718377.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8679	21371	34518	3.33	0.0E+00	AW337277.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8685	21377	34521	1.12	0.0E+00	AU124051.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8761	21453	34601	1.05	0.0E+00	AU140704.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8771	21463	34610	0.86	0.0E+00	AB007923.1	NT	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8776	21468	34614	0.54	0.0E+00	R17132.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8776	21468	34615	0.54	0.0E+00	R17132.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8780	21472	34617	4.43	0.0E+00	AW592233.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8790	21472	34618	4.43	0.0E+00	AW592233.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8815	21507	34662	0.47	0.0E+00	AU128804.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8827	21519	34664	1.04	0.0E+00	AV714764.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8843	21535	34679	2.79	0.0E+00	AL040428.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8843	21535	34680	2.79	0.0E+00	AL040428.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8849	21540	34686	1.17	0.0E+00	AF133901.1	NT	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8851	21542	34689	2.03	0.0E+00	AB040945.1	NT	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8858	21549	34696	0.65	0.0E+00	BF675505.1	EST_HUMAN	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8880	21551		0.8	0.0E+00	BF058289.1	EST_HUMAN	7k28b03.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3476882 3' similar to TR:O36448 O36448 S GAG ;
8889	21590	34720	3.97	0.0E+00	11422867	NT	Homo sapiens tumor protein p73 (TP73), mRNA
8898	21589	34729	1.19	0.0E+00	K01241.1	NT	Human Ig rearranged H-chain epsilon-3 pseudogene, constant region
8905	21596	34737	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8906	21596	34738	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8910	21601	34744	1.79	0.0E+00	AV680739.1	EST_HUMAN	AV680739 GLC Homo sapiens cDNA clone GLCGKG123
8916	21607	34750	2.88	0.0E+00	7706638	NT	Homo sapiens polycystin-L (PKDL), mRNA
8921	21612	34755	0.5	0.0E+00	BE793328.1	EST_HUMAN	601588304F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942553 5'
8922	21613	34756	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1281 protein, partial cds
8922	21613	34757	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1281 protein, partial cds
8934	21625	34779	0.91	0.0E+00	H73937.1	EST_HUMAN	YU03h08.1 Scores fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:232767 5'
8944	21635	34780	4.57	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8944	21635	34780	4.57	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8954	21645	34795	0.46	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856100 5'
8954	21645	34796	0.46	0.0E+00	BE612721.1	EST_HUMAN	601452582F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856100 5'
8957	21648		0.45	0.0E+00	M89986.1	NT	Human polymorphic kool in Xq28
8959	21650	34800	3.96	0.0E+00	X14766.1	NT	Human mRNA for GABA-A receptor, alpha 1 subunit
8980	21670	34820	2.03	0.0E+00	A1061395.1	EST_HUMAN	en28e04.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700094 3'
8985	21675	34824	1.95	0.0E+00	A1954807.1	EST_HUMAN	O15490 MELANOMA-ASSOCIATED ANTIGEN B3 ;
8989	21679	34828	4.65	0.0E+00	9256596	NT	Homo sapiens protocadherin alpha 8 (PCDH8), mRNA
9000	21690	34840	1.42	0.0E+00	AW958311.1	EST_HUMAN	EST370381 MAGE resequences, MAGE Homo sapiens cDNA
9011	21701	34851	2.46	0.0E+00	9635487	NT	Human endogenous retrovirus, complete genome
9026	21716	34869	1.53	0.0E+00	AU142662.1	EST_HUMAN	AU142662 Y79AA1 Homo sapiens cDNA clone Y79AA1000678 5'
9042	21732	34887	1.76	0.0E+00	11436995	EST_HUMAN	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
9043	21733		1.18	0.0E+00	BE410768.1	EST_HUMAN	601301676F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636163 5'
9056	21745	34904	1.83	0.0E+00	BF002024.1	EST_HUMAN	7g97h12.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3314471 3' similar to TR:Q8UH62
9070	21759	34920	1.1	0.0E+00	AB011150.1	NT	Q9UH62 HYPOTHETICAL 42.5 KD PROTEIN ;
9071	21760	34921	7.72	0.0E+00	BE794823.1	EST_HUMAN	Homo sapiens mRNA for KIAA0578 protein, partial cds
9075	21764	34926	0.99	0.0E+00	BE810282.1	EST_HUMAN	601589294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'
9075	21764	34927	0.99	0.0E+00	BE810282.1	EST_HUMAN	RC3-PT0151-280600-071-c05 PT0151 Homo sapiens cDNA
9078	21767	34930	2.93	0.0E+00	AU136229.1	EST_HUMAN	RC3-PT0151-280600-071-c05 PT0151 Homo sapiens cDNA
							AU136229 PLACE1 Homo sapiens cDNA clone PLACE1003804 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9083	21772	34935	1.27	0.0E+00	BE883843.1	EST_HUMAN	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911986 5'
9083	21772	34936	1.27	0.0E+00	BE883843.1	EST_HUMAN	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911986 5'
9102	21790	34953	0.62	0.0E+00	AB011106.1	NT	Homo sapiens mRNA for KIAA0564 protein, partial cds
9108	21794	34957	1.4	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9106	21794	34958	1.4	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9184	21834	34998	1.13	0.0E+00	AW673469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275
9184	21834	34999	1.13	0.0E+00	AW673469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800367 5' similar to TR:O60275 O60275
9198	21867	35031	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOUSE);
9198	21867	35032	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba0905.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bcl-xL mRNA, complete cds (MOUSE);
9209	22088	35260	1.61	0.0E+00	BF348013.1	EST_HUMAN	602023150F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4186300 5'
9244	21823	35063	2.77	0.0E+00	BE712515.1	EST_HUMAN	QV2-HT0698-250700-282-b08 HT0998 Homo sapiens cDNA
9277	22031	35201	0.88	0.0E+00	BF034377.1	EST_HUMAN	601455116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9277	22031	35202	0.88	0.0E+00	BF034377.1	EST_HUMAN	601455116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9283	22037	35209	0.5	0.0E+00	A1906351.1	EST_HUMAN	RC-BT108-040399-032 BT108 Homo sapiens cDNA
9286	22040	35211	0.51	0.0E+00	5803069	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9286	22040	35212	0.81	0.0E+00	5803069	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9296	21963	35137	1.5	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120.t1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5'
9331	21998	35171	1.28	0.0E+00	A1088043.1	EST_HUMAN	ow60h01.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1651249 3' similar to TR:Q14677 Q14677 KIAA0171 PROTEIN ;
9338	20409	33524	0.72	0.0E+00	BF306962.1	EST_HUMAN	601802245F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138066 5'
9340	20411	33527	2.51	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9340	20411	33528	2.51	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9342	20413	33531	9.88	0.0E+00	A1290909.1	EST_HUMAN	qm09a06.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN P29316 60S RIBOSOMAL PROTEIN L23A ;
9342	20413	33532	9.88	0.0E+00	A1290909.1	EST_HUMAN	qm09a06.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN P29316 60S RIBOSOMAL PROTEIN L23A ;
9343	20414	33533	1.99	0.0E+00	AW963836.1	EST_HUMAN	EST1368026 MAGE resequences, MAGEC Homo sapiens cDNA
9370	21945	35117	3.07	0.0E+00	AF153466.1	NT	Homo sapiens polycystic kidney disease 2-like protein (PKD2L) gene, exon 8

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9373	21948	35121	0.66	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9373	21948	35122	0.66	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9382	22044		7.32	0.0E+00	BE255820.1	EST_HUMAN	601109942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'
9385	22047	35219	1.09	0.0E+00	BE781382.1	EST_HUMAN	601466828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9385	22047	35220	1.09	0.0E+00	BE781382.1	EST_HUMAN	601466828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9387	22049	35221	12.62	0.0E+00	AW163779.1	EST_HUMAN	au86c04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to gb:M36072
9409	22071	35243	2.98	0.0E+00	BE263191.1	EST_HUMAN	601145054F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'
9427	22105	35278	4.29	0.0E+00	CO6158.1	EST_HUMAN	CO6158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9427	22105	35279	4.29	0.0E+00	CO6158.1	EST_HUMAN	CO6158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9429	22107	35282	2.63	0.0E+00	BE746215.1	EST_HUMAN	601578683F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927548 5'
9439	22117	35282	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9439	22117	35283	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9439	22117	35294	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9459	22009	35179	1.44	0.0E+00	BE808549.1	EST_HUMAN	601673423F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'
9475	22128	35307	1.01	0.0E+00	AV701829.1	EST_HUMAN	AV701829 ADB Homo sapiens cDNA clone ADBBYH01 5'
9489	22142	35321	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT2E) gene, complete cds
9489	22142	35322	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT2E) gene, complete cds
9522	22176	35359	0.94	0.0E+00	BE082977.1	EST_HUMAN	RC2-BT0842-130300-017-g01 BT0842 Homo sapiens cDNA
9541	22194	35379	1.74	0.0E+00	AW500293.1	EST_HUMAN	UI-HF-BN0-akg-b-12-0-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9541	22194	35380	1.74	0.0E+00	AW500293.1	EST_HUMAN	UI-HF-BN0-akg-b-12-0-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9550	22203	35386	1.45	0.0E+00	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
9550	22203	35387	1.45	0.0E+00	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
9552	22205	35388	0.89	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9552	22205	35389	0.89	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9561	22214	35400	0.54	0.0E+00	W56629.1	EST_HUMAN	zd16a11.r1 Soares_fetal_heart_NBrH19W Homo sapiens cDNA clone IMAGE:340844 5'
9561	22214	35401	0.54	0.0E+00	W56629.1	EST_HUMAN	zd16a11.r1 Soares_fetal_heart_NBrH19W Homo sapiens cDNA clone IMAGE:340844 5'
9572	22223	35410	1.83	0.0E+00	AB035356.1	NT	Homo sapiens mRNA for neuronin I-alpha protein, complete cds
9576	22228		0.8	0.0E+00	AI124780.1	EST_HUMAN	am50a11.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539548 3'
9578	22231	35415	3.59	0.0E+00	AW500528.1	EST_HUMAN	UI-HF-BN0-akg-c-07-0-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077364 5'
9624	22277	35486	1.53	0.0E+00	AF009668.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9652	22304	35499	2.23	0.0E+00	S78466.1	NT	AIIGF=androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9652	22304	35500	2.23	0.0E+00	S78466.1	NT	AIIGF=androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9655	22307	35505	2.93	0.0E+00	BE563320.1	EST_HUMAN	601334603F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3686680 5'
9674	22328	35521	1.94	0.0E+00	AW363135.1	EST_HUMAN	CM2-CT0311-307199-043-h11 CT0311 Homo sapiens cDNA
9692	22343	35537	0.46	0.0E+00	11436432	NT	Homo sapiens multimerin (MIMRN), mRNA
9693	22344	35538	0.51	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
9702	22353	35548	0.54	0.0E+00	BE206710.1	EST_HUMAN	b626c01.x1 NIH_MGC_5 Homo sapiens cDNA clone IMAGE:2884000 3'
9719	22370	35568	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9719	22370	35569	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9728	22379	35581	0.77	0.0E+00	AW500936.1	EST_HUMAN	UHFBP0p-af-7-05-QJL1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072897 5'
9733	22384	35586	9.08	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
9733	22384	35587	9.08	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
9734	22385	35588	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9734	22385	35589	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9747	22398	35603	1.73	0.0E+00	7862067	NT	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA
9765	22416	35623	1.59	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_11 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434L0120 5'
9770	22421	35628	1.53	0.0E+00	AL041084.2	EST_HUMAN	DKFZp434B2416_11 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434B2416 5'
9780	22431	35638	2.54	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9781	22432	35637	2.37	0.0E+00	AF152308.1	NT	Homo sapiens proteoglycan alpha 12 (PCDH-alpha12) mRNA, complete cds
9808	22459	35684	2.63	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9808	22459	35685	2.63	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9824	22475	35678	1.81	0.0E+00	BF082898.1	EST_HUMAN	MR4-TN0114-110800-101-604 TN0114 Homo sapiens cDNA
9854	22504	35704	2.41	0.0E+00	BE280783.1	EST_HUMAN	601155227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138798 5'
9864	22514	35710	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9864	22514	35711	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9873	22523	35717	3.03	0.0E+00	AW236266.1	EST_HUMAN	xn72b01.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2689977 3' similar to gb:X02152_cds1 L-LACTATE DEHYDROGENASE M CHAIN (HUMAN);
9874	22524	35718	1.06	0.0E+00	A3431305.1	EST_HUMAN	EST46740 Fetal kidney II Homo sapiens cDNA 5' end
9904	22553	35748	0.87	0.0E+00	AW964113.1	EST_HUMAN	EST376186 IMAGE: resequenced, MAGH Homo sapiens cDNA
9915	22564	35769	7.01	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'
9915	22564	35760	7.01	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9918	22567	35763	2.98	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIR2C gene, exons 2, 3, and 4
9921	22569	35765	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9921	22569	35766	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9956	22604	35809	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9958	22604	35810	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9972	22620	35824	2.08	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/Importin7 and partial ZNF143 gene
9972	22620	35825	2.08	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/Importin7 and partial ZNF143 gene
9977	22625	35832	1.04	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GK Homo sapiens cDNA clone GKCDXA07 5'
9977	22625	35833	1.04	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GK Homo sapiens cDNA clone GKCDXA07 5'
9983	22631	35840	0.74	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIR2C gene, exons 2, 3, and 4
9986	22633	35843	3.11	0.0E+00	AA186387.1	EST_HUMAN	z997h11.11 Strategene muscle 937209 Homo sapiens cDNA clone IMAGE:628197 5'
10011	22659	35873	1	0.0E+00	AA131248.1	EST_HUMAN	z51701.11 Scores_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10011	22659	35874	1	0.0E+00	AA131248.1	EST_HUMAN	z51701.11 Scores_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10056	22704	35922	1.44	0.0E+00	AF170308.1	NT	Homo sapiens KIF4 (KIF4) mRNA, complete cds
10101	22749	35964	0.92	0.0E+00	BE806658.1	EST_HUMAN	601491565F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893657 5'
10112	22760	35972	6.22	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10112	22760	35973	6.22	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10117	22765	35977	0.97	0.0E+00	AU127403.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone NT2RP2001212 5'
10127	22775	35988	0.87	0.0E+00	BE968511.1	EST_HUMAN	601845134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3890177 5'
10127	22775	35989	0.87	0.0E+00	BE968511.1	EST_HUMAN	601845134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3890177 5'
10144	22782	36007	0.98	0.0E+00	BE897487.1	EST_HUMAN	601432317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917453 5'
10154	22802	36020	0.97	0.0E+00	AA311624.1	EST_HUMAN	EST182353 Jurkat T-cells VI Homo sapiens cDNA 5' end
10155	22803	36021	1.01	0.0E+00	4758827	NT	Homo sapiens neuraxin III (NRXN3) mRNA
10166	22814	36032	0.67	0.0E+00	BE891113.1	EST_HUMAN	601432228F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10169	22817	36035	1.13	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10179	22827	36041	1.72	0.0E+00	AB028280.1	NT	Homo sapiens mRNA for actin binding protein ABP620, complete cds
10180	22828	36042	0.46	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987918 5'
10180	22828	36043	0.46	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987918 5'
10187	22835	36048	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10187	22835	36049	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10193	22841	36056	1.08	0.0E+00	AA704457.1	EST_HUMAN	z19008.s1 Scores_fetal_liver_aplcn_1NFLS S1 Homo sapiens cDNA clone IMAGE:450707 3' similar to gb:M14123_cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10196	22843	36057	0.74	0.0E+00	M22921.1	NT	Human beta 1,4-galactosyl-transferase mRNA, complete cds
10197	22845	36060	5.45	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCJ CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4184939 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10197	22845	36061	5.45	0.0E+00	BF340333.1	EST_HUMAN	602037045F1 NCL_CGAP_Bm84 Homo sapiens cDNA clone IMAGE:4184939 5'
10222	22870	36082	0.83	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10222	22870	36083	0.83	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10252	22900	36110	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DCB Homo sapiens cDNA clone DC8BDC09 5'
10252	22900	36111	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DCB Homo sapiens cDNA clone DC8BDC09 5'
10282	22930	36143	2.36	0.0E+00	AI631818.1	EST_HUMAN	ws36e03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204
10282	22930	36144	2.36	0.0E+00	AI631818.1	EST_HUMAN	ws36e03.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204
10288	22936	36149	0.49	0.0E+00	11545730	NT	Q61204 NOTCH2-LIKE ;
10288	22945	36159	1.52	0.0E+00	TO3078.1	EST_HUMAN	Homo sapiens Gligoxonin (GAN), mRNA
10323	22970	36190	0.84	0.0E+00	AU122429.1	EST_HUMAN	FB23A4 Fetal brain, Stratagene Homo sapiens cDNA clone FB23A4 3'end
10326	22976	36196	0.46	0.0E+00	6005921	NT	AU122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002368 5'
10348	22995	36214	2.5	0.0E+00	BF436218.1	EST_HUMAN	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
10349	22998		0.87	0.0E+00	AV654766.1	EST_HUMAN	nab45e12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3266271 3'
10399	23015	36231	2.75	0.0E+00	AW517980.1	EST_HUMAN	AV654765 GLC Homo sapiens cDNA clone GLCZC07 3'
10374	23020	36236	8.82	0.0E+00	BE549213.1	EST_HUMAN	xu74b01.x1 NCL_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb:M69068 MOESIN (HUMAN);
10389	23035	36231	0.75	0.0E+00	11436005	NT	601078764F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464703 5'
10414	23060	36279	2.79	0.0E+00	BE781742.1	EST_HUMAN	Homo sapiens hypothetical protein DKFZp761P1010 (DKFZp761P1010), mRNA
10435	23081	36307	1.9	0.0E+00	BE082720.1	EST_HUMAN	601467418F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870700 5'
10435	23081	36308	1.9	0.0E+00	BE082720.1	EST_HUMAN	RC2-BT0842-150200-012-d03 BT0842 Homo sapiens cDNA
10442	23088	36316	0.66	0.0E+00	Y08032.1	NT	RC2-BT0842-150200-012-d03 BT0842 Homo sapiens cDNA
10448	23094	36326	0.86	0.0E+00	AI656890.1	EST_HUMAN	Human endogenous retrovirus-K, LTR U5 and gag gene
10454	23100	36331	1.33	0.0E+00	BE743215.1	EST_HUMAN	tt54e07.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2244612 3'
10454	23100	36332	1.33	0.0E+00	BE743215.1	EST_HUMAN	601573995F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
10459	23105	36335	2.49	0.0E+00	BE617655.1	EST_HUMAN	601573995F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
10459	23105	36336	2.49	0.0E+00	BE617655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845956 3'
10481	23127	36355	0.57	0.0E+00	H398005.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845956 3'
10508	23154	36380	1.01	0.0E+00	DB7675.1	NT	yp01a10.r1 Soares_breast_3NHBTst Homo sapiens cDNA clone IMAGE:186138 5'
10510	23156	36382	0.45	0.0E+00	AF081364.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10519	23165	36392	1.02	0.0E+00	BE172254.1	EST_HUMAN	Synthetic construct CD30 ligand-ecotod A fusion protein (CD30L-ETA fusion) mRNA, partial cds
10519	23165	36393	1.02	0.0E+00	BE172254.1	EST_HUMAN	MRO-HT0559-270300-006-e12 HT0559 Homo sapiens cDNA
10532	23229	36463	2.76	0.0E+00	AV711075.1	EST_HUMAN	MRO-HT0559-270300-006-e12 HT0559 Homo sapiens cDNA
							AV711075 Cu Homo sapiens cDNA clone CUAAG05 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10532	23229	36484	2.76	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Qu Homo sapiens cDNA clone QUAAG05 5'
10534	23231		2.13	0.0E+00	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-403 ST0197 Homo sapiens cDNA
10542	23238	36472	7.02	0.0E+00	AW983563.1	EST_HUMAN	EST375636 IMAGE resequencing, MAGH Homo sapiens cDNA
10555	23251	36487	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10555	23251	36488	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10559	23255	36492	2.09	0.0E+00	AW057821.1	EST_HUMAN	wy61f09.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2553065 3' similar to TR:Q00568 Q00568 VDX;
10567	23262	36499	1.6	0.0E+00	BE243270.1	EST_HUMAN	TCAAAP3D0917 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAAP0917
10568	23263	36500	2.85	0.0E+00	AI652239.1	EST_HUMAN	wb28a12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
10568	23263	36501	2.85	0.0E+00	AI652239.1	EST_HUMAN	wb28a12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
10573	23268	36506	1.54	0.0E+00	BF306642.1	EST_HUMAN	601888704F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122649 5'
10580	23275	36512	5.06	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10580	23275	36513	5.06	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10598	23290	36528	1.98	0.0E+00	AW404795.1	EST_HUMAN	UI-HF-BLO-acm-d-04-Q-U1.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059383 5'
10600	23294	36533	3.17	0.0E+00	11424829	NT	Homo sapiens hypothetical protein FLJ20079 (FLJ20079), mRNA
10601	23295	36534	7.47	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E), mRNA
10601	23295	36535	7.47	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E), mRNA
10602	23298	36536	3.68	0.0E+00	AI991827.1	EST_HUMAN	wu32b06.x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2521715 3'
10605	23299	36540	4.46	0.0E+00	BE862109.1	EST_HUMAN	601505204F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3906865 5'
10609	23303	36542	8.24	0.0E+00	BE891630.1	EST_HUMAN	601434522F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919636 5'
10612	23306	36544	1.66	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10612	23306	36545	1.66	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10619	23312	36551	1.4	0.0E+00	AB014608.1	NT	Homo sapiens mRNA for KIAA0708 protein, partial cds
10619	23312	36552	1.4	0.0E+00	AB014608.1	NT	Homo sapiens mRNA for KIAA0708 protein, partial cds
10628	23321	36559	1.31	0.0E+00	BE903304.1	EST_HUMAN	601674332F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3957343 5'
10631	18484	31403	1.65	0.0E+00	AA195905.1	EST_HUMAN	zp95b11.1 Stratiogene muscle 937209 Homo sapiens cDNA clone IMAGE:627833 5' similar to gb.X03740
10652	23343	36581	5.53	0.0E+00	BE793498.1	EST_HUMAN	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
10660	23351	36588	1.79	0.0E+00	BE729706.1	EST_HUMAN	601588829F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943015 5'
10660	23351	36589	1.79	0.0E+00	BE729706.1	EST_HUMAN	601562864F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10661	23352	36590	39.99	0.0E+00	AV727362.1	EST_HUMAN	601562864F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10661	23352	36591	33.99	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQ106 5'
10674	23365	36608	9.59	0.0E+00	AW516055.1	EST_HUMAN	X04g10.x1 NCL_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852226 3' similar to gb:M60854.40S
10680	23371	36613	3.18	0.0E+00	AU135741.1	EST_HUMAN	RIBOSOMAL PROTEIN S16 (HUMAN);
10686	23377	36617	3.41	0.0E+00	AW583333.1	EST_HUMAN	AU135741 PLACE1 Homo sapiens cDNA clone PLACE1002784 5'
10688	23377	36618	3.41	0.0E+00	AW583333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10688	23377	36619	3.41	0.0E+00	AW583333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10688	23377	36620	1.89	0.0E+00	Z34897.1	NT	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10689	23380	36621	2.97	0.0E+00	F13069.1	EST_HUMAN	H.sapiens mRNA for H1 histamine receptor
10700	23391	36628	1.79	0.0E+00	D10083.1	NT	HSC3C031 normalized infant brain cDNA Homo sapiens cDNA clone c-3ic03
10706	23396	36634	1.33	0.0E+00	4758281	NT	Homo sapiens RGH1 gene, retrovirus-like element
10706	23396	36635	1.33	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
10718	23407	36648	2.13	0.0E+00	AW338094.1	EST_HUMAN	xw6901.x1 NCL_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2832985 3' similar to gb:X17115 IG MU
10719	23408	36649	4.62	0.0E+00	AW451230.1	EST_HUMAN	CHAIN C REGION (HUMAN);
10719	23408	36650	4.62	0.0E+00	AW451230.1	EST_HUMAN	U1H-B13-elt-e-01-q-U1.s1 NCL_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
10721	13021		11.67	0.0E+00	4506632	NT	U1H-B13-elt-e-01-q-U1.s1 NCL_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
10723	23411	36652	2.63	0.0E+00	AB014567.1	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
10738	23425	36670	1.98	0.0E+00	BE286449.1	EST_HUMAN	Homo sapiens mRNA for KIAA0687 protein, partial cds
10754	23439	36683	2.04	0.0E+00	AB011117.1	NT	601119248F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029219 5'
10763	23447		1.71	0.0E+00	AU124106.1	EST_HUMAN	Homo sapiens mRNA for KIAA0545 protein, partial cds
10771	23454	36697	1.45	0.0E+00	AB028040.1	NT	AU124108 NT2RM2 Homo sapiens cDNA clone NT2RM2001875 5'
10771	23454	36698	1.45	0.0E+00	AB028040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10776	23459	36702	4.04	0.0E+00	BE792155.1	EST_HUMAN	Homo sapiens mRNA for KIAA1117 protein, partial cds
10777	23460		56.14	0.0E+00	BE792155.1	EST_HUMAN	601582048F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936539 5'
10778	23461	36703	1.3	0.0E+00	BE269288.1	EST_HUMAN	602141405F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302432 5'
10781	23464	36706	5.6	0.0E+00	AU118388.1	EST_HUMAN	601186342F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3544259 5'
10786	23469	36710	6.53	0.0E+00	A1149806.1	EST_HUMAN	AU118388 HEMBA1 Homo sapiens cDNA clone HEMBA1003486 5'
10786	23469	36711	6.53	0.0E+00	A1149806.1	EST_HUMAN	qf43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
10787	23470	36712	3.04	0.0E+00	AW391937.1	EST_HUMAN	qf43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
							QV4-ST0234-121189-032-506 ST0234 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10798	23481	36721	4.39	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10798	23481	36722	4.39	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10807	23490	36726	9.57	0.0E+00	11424726	NT	Homo sapiens insulin receptor (INSR), mRNA
10814	23497	36733	1.42	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM0093-170400-191-406 UM0093 Homo sapiens cDNA
10814	23497	36734	1.42	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM0093-170400-191-406 UM0093 Homo sapiens cDNA
10815	23498	36736	1.6	0.0E+00	BF340308.1	EST_HUMAN	602037014F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4184979 5'
10817	23500	36738	52.94	0.0E+00	BE281209.1	EST_HUMAN	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'
10821	23504	36743	2.37	0.0E+00	AB023040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10824	23507	36746	1.69	0.0E+00	AB007932.1	NT	Homo sapiens mRNA for KIAA0463 protein, partial cds
10828	23510	36750	3.47	0.0E+00	U50326.1	NT	Homo sapiens protein kinase C substrate 80K-H (PRKCSH) gene, exon 15-17
10832	23514	36755	1.55	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-407 FT0134 Homo sapiens cDNA
10832	23514	36756	1.55	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-407 FT0134 Homo sapiens cDNA
10838	23520	36762	1.47	0.0E+00	W21826.1	EST_HUMAN	57E10 Human retina cDNA 1 sp509L-cleaved sublibrary Homo sapiens cDNA not directional
10854	23534	36779	136.91	0.0E+00	AA740782.1	EST_HUMAN	ds32e07.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325412 3' similar to contains element
10857	23537	36783	2.05	0.0E+00	AW46922.1	EST_HUMAN	MSR1 repetitive element
10863	23543	36790	2.91	0.0E+00	AF252303.1	NT	hs04h04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'
10879	23559	36806	7.34	0.0E+00	C05089.1	EST_HUMAN	Homo sapiens signaling lymphocytic activation molecule (SLAM) gene, exon 2
10886	23566	36814	2.31	0.0E+00	AA746375.1	EST_HUMAN	C05089 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHC4817
10886	23566	36815	2.31	0.0E+00	AA746375.1	EST_HUMAN	oes56h01.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
10895	23575	36825	3.74	0.0E+00	M78448.1	EST_HUMAN	oes56h01.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
10895	23575	36826	3.74	0.0E+00	M78448.1	EST_HUMAN	EST00596 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCC26
10898	23578	36827	6.82	0.0E+00	AL157808.1	EST_HUMAN	EST00596 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCC26
10910	23590	36836	5.81	0.0E+00	AU116988.1	EST_HUMAN	DKFZp761J2116 r1 761 (synonym: herry2) Homo sapiens cDNA clone HFBCC26
10924	23604	36853	1.64	0.0E+00	AV963656.1	EST_HUMAN	AU116988 HEMBA1 Homo sapiens cDNA clone HEMBA1000424 5'
10932	23612	36862	2.09	0.0E+00	BF366563.1	EST_HUMAN	AV693656 GKC Homo sapiens cDNA clone GKCCNC03 5'
10955	18399	31311	2.73	0.0E+00	AB035266.1	NT	IL3-NT0104-200500-143-A07 NT0104 Homo sapiens cDNA
10955	18399	31312	2.73	0.0E+00	AB035266.1	NT	Homo sapiens mRNA for neuradin II, complete cds
10960	23636	36887	2.64	0.0E+00	BE182360.1	EST_HUMAN	Homo sapiens mRNA for neuradin II, complete cds
10960	23636	36888	2.64	0.0E+00	BE182360.1	EST_HUMAN	PM0-HT0845-060500-002-E05 HT0845 Homo sapiens cDNA
10961	23637		1.4	0.0E+00	AV701152.1	EST_HUMAN	PM0-HT0845-060500-002-E06 HT0845 Homo sapiens cDNA
10980	23655	36908	4.07	0.0E+00	BE898423.1	EST_HUMAN	AV701152 ADA Homo sapiens cDNA clone ADAAD06 5'
							601439092F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924142 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10989	23663	36919	1.85	0.0E+00	AW600307.1	EST_HUMAN	UI-HF-BN0-alkg-d-02-0-UJ1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10989	23663	36920	1.85	0.0E+00	AW600307.1	EST_HUMAN	UI-HF-BN0-alkg-d-02-0-UJ1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10982	23666	36923	2.39	0.0E+00	BE018283.1	EST_HUMAN	bb78c04.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048486 5' similar to gb:Y00345 cds1 POLYADENYLATE-BINDING PROTEIN (HUMAN); gb:X86563 M.musculus mRNA for poly(A) binding protein (MOUSE);
11016	23668	36949	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23668	36950	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4181083 5'
11018	23668	36951	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4181083 5'
11028	25133	36964	1.27	0.0E+00	AW387786.1	EST_HUMAN	MR4-ST0118-041098-010-A12 ST0118 Homo sapiens cDNA
11028	25133	36965	1.27	0.0E+00	AW387786.1	EST_HUMAN	MR4-ST0118-041098-010-A12 ST0118 Homo sapiens cDNA
11034	23705	36973	1.53	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
11035	23706	36974	8.73	0.0E+00	BE807953.1	EST_HUMAN	601440446F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925403 5'
11037	23708	36977	1.89	0.0E+00	A1459545.1	EST_HUMAN	ec88g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11037	23708	36978	1.89	0.0E+00	A1459545.1	EST_HUMAN	ec88g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11051	23721	36992	2.76	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120 J1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFPZp434L0120 5'
11083	23763	37028	1.61	0.0E+00	10880982	NT	Homo sapiens gephyrin (GPH), mRNA
11085	23755	37031	3.98	0.0E+00	4758827	NT	Homo sapiens neurodin III (NRXN3) mRNA
11086	23756	37032	2.67	0.0E+00	BF206561.1	EST_HUMAN	601870902F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4101433 5'
11091	23761	37038	12.22	0.0E+00	AW207734.1	EST_HUMAN	UI-H-B12-agg-h-01-0-UJ1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'
11096	23766	37040	4.23	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11096	23766	37041	4.23	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11098	23788	37043	2.69	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O78022 O78022 E1B- 55KDA-ASSOCIATED PROTEIN.;
11098	23788	37044	2.69	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O78022 O78022 E1B- 55KDA-ASSOCIATED PROTEIN.;
11110	23780	37055	1.9	0.0E+00	11526409	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
11124	23783	37059	1.52	0.0E+00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
11127	20052	33133	1.5	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
11131	23789	37074	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
11131	23789	37075	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
11154	23821	37101	1.96	0.0E+00	AW673469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN.;
11154	23821	37102	1.96	0.0E+00	AW673469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN.;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11176	23843	37128	6.21	0.0E+00	BF507876.1	EST_HUMAN	U1H-B14-ack-b-10-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086026 3'
11178	23843	37128	6.21	0.0E+00	BF507876.1	EST_HUMAN	U1H-B14-ack-b-10-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086026 3'
11185	23850	37136	1.57	0.0E+00	AU135170.1	EST_HUMAN	AU135170 PLAGE1 Homo sapiens cDNA clone PLAGE1001381 5'
11189	23854	37140	1.82	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11189	23854	37141	1.82	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11190	23855	37142	1.67	0.0E+00	BF088811.1	EST_HUMAN	RC3-GN0088-180900-011-c08 GN0088 Homo sapiens cDNA
11182	23857	37143	5.5	0.0E+00	BE876401.1	EST_HUMAN	601486828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
11182	23857	37144	5.5	0.0E+00	BE876401.1	EST_HUMAN	601486828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
11199	23864	37150	1.94	0.0E+00	D67682.1	NT	Human mRNA for KIAA0241 gene, partial cds
11204	23868		5.95	0.0E+00	BF240536.1	EST_HUMAN	601875030F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4089710 5'
11218	23881	37166	2.04	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11218	23881	37167	2.04	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11222	23885	37170	4.17	0.0E+00		NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11222	23885	37171	4.17	0.0E+00		NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11230	23893	37179	1.8	0.0E+00	AA772837.1	EST_HUMAN	se74g04.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:969942 3'
11241	23903	37192	1.82	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11241	23903	37193	1.82	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11244	23906	37198	6.16	0.0E+00	4503544	NT	Homo sapiens eukaryotic translation initiation factor 5A (EIF5A) mRNA
11251	23913	37205	1.36	0.0E+00	BF576267.1	EST_HUMAN	602134132F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4286502 5'
11254	23916	37209	5.84	0.0E+00	AW326173.1	EST_HUMAN	dr04g05.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2847177 5'
11258	23920		71.88	0.0E+00	M55083.1	NT	Human gamma actin-like pseudogene, complete cds
11264	23926	37216	2.93	0.0E+00	BF306996.1	EST_HUMAN	601886823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11264	23926	37217	2.93	0.0E+00	BF306996.1	EST_HUMAN	601886823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11271	23932	37225	105.67	0.0E+00	BF362462.1	EST_HUMAN	QV2-NN0054-230600-333-e04 NN0054 Homo sapiens cDNA
11281	23932	37249	2.34	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11281	23932	37250	2.34	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11295	23956		3.03	0.0E+00	BE897051.1	EST_HUMAN	601439605F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924577 5'
11298	23957		1.73	0.0E+00	4503786	NT	Homo sapiens tyrosine-related kinase (FRK) mRNA
11310	23969	37271	3.55	0.0E+00	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11313	23972		2.89	0.0E+00	BF207682.1	EST_HUMAN	601861947F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4081715 5'
11314	23973		2.03	0.0E+00	BE257744.1	EST_HUMAN	601116705F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357384 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11327	24018	37321	4.02	0.0E+00	BE208848.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN ;
11327	24018	37322	4.02	0.0E+00	BE208848.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN ;
11328	24020	37324	3.88	0.0E+00	AW753028.1	EST_HUMAN	QV0-CT0225-101289-071-406 CT0225 Homo sapiens cDNA
11334	24025		3.06	0.0E+00	AA558707.1	EST_HUMAN	m42c08.s1 NCI_CGAP_P4 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M95178 ALPHA-ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);
11335	18000	30623	3.84	0.0E+00	AA558707.1	EST_HUMAN	ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);
11336	24026	37330	7.45	0.0E+00	AW327895.1	EST_HUMAN	wp08g08.x1 NCI_CGAP_Kd12 Homo sapiens cDNA clone IMAGE:2494094 3'
11355	25134	37348	1.89	0.0E+00	AW282776.1	EST_HUMAN	dr02b08.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2846919 5'
11362	23173	36401	2.2	0.0E+00	4789827	NT	UIH-BW0-aj-d-07-0-J1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729509 3'
11368	23975	37276	1.73	0.0E+00	BE254088.1	EST_HUMAN	Homo sapiens neurokinin III (NRXN3) mRNA
11371	23978	37278	1.74	0.0E+00	BE254088.1	EST_HUMAN	601113903F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354800 5'
11371	23978	37279	1.74	0.0E+00	BE965909.2	EST_HUMAN	601659088R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11372	23979	37280	4.52	0.0E+00	BE186886.1	EST_HUMAN	601659088R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11373	23980		1.29	0.0E+00	BF513980.1	EST_HUMAN	IL5-HT0731-020500-077-405 HT0731 Homo sapiens cDNA
11387	23993	37294	7.81	0.0E+00	AL046540.1	EST_HUMAN	UIH-BW1-annv-a-06-0-J1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071121 3'
11387	23993	37295	7.81	0.0E+00	AL046540.1	EST_HUMAN	DKF7p434G178.t1 434 (synonym: htes3) Homo sapiens cDNA clone DKF7p434G178 5'
11397	24003	37306	5.89	0.0E+00	AI923116.1	EST_HUMAN	DKF7p434G178.t1 434 (synonym: htes3) Homo sapiens cDNA clone DKF7p434G178 5'
11401	24050	37353	3.42	0.0E+00	AA760913.1	EST_HUMAN	Wn83g03.x1 NCI_CGAP_UH Homo sapiens cDNA clone IMAGE:2452468 3' similar to gb:S37431 LAMININ RECEPTOR (HUMAN);
11401	24050	37354	3.42	0.0E+00	AA760913.1	EST_HUMAN	rz11c07.s1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:1287488 3' similar to TR:Q13686
11406	24055	37360	1.94	0.0E+00	BE910846.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN ;
11418	23183	36413	7.9	0.0E+00	BE576347.1	EST_HUMAN	rz11c07.s1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:1287488 3' similar to TR:Q13686
11419	23188	36416	1.79	0.0E+00	BE910846.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN ;
11419	23188	36417	1.79	0.0E+00	BE910846.1	EST_HUMAN	801501090F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902926 5'
11428	23193	36424	1.61	0.0E+00	AV757420.1	EST_HUMAN	772712.x1 NCI_CGAP_GLL1 Homo sapiens cDNA clone IMAGE:3902926 5'
11467	24061	37367	1.52	0.0E+00	Y18900.1	NT	CHECKPOINT SUPPRESSOR 1 ;
11461	24064	37370	10.31	0.0E+00	L39891.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
11461	24064	37371	10.31	0.0E+00	L39891.1	NT	Homo sapiens polyomavirus kidney disease-associated protein (PKD1) gene, complete cds
11476	24077	37387	4.69	0.0E+00	AI138211.1	EST_HUMAN	Homo sapiens polyomavirus kidney disease-associated protein (PKD1) gene, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11401	24092	37404	1.92	0.0E+00	BE622317.1	EST_HUMAN	601441088F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5'
11518	24118	37428	1.42	0.0E+00	AK09634.1	EST_HUMAN	hm94c10.x5 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165778 3'
11529	24129	37434	13.79	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11529	24129	37435	13.79	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11639	24139	37447	1.81	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11539	24139	37448	1.81	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11542	24142	37451	2.08	0.0E+00	AW006022.1	EST_HUMAN	wz91h01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2568225 3' similar to WP:F53H10.2
11546	25135	37455	3.49	0.0E+00	BF002333.1	EST_HUMAN	CE11040 ZINC FINGER, C2H2 TYPE
11571	24170	37485	2.88	0.0E+00	AW387778.1	EST_HUMAN	7h22b10.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:3316899 3' similar to TR:Q13458 Q13458
11571	24170	37486	2.88	0.0E+00	AW387778.1	EST_HUMAN	TRIO.;
11582	24181	37521	2.41	0.0E+00	AW63777.1	EST_HUMAN	MIR4-ST0118-261089-012-b03 ST0118 Homo sapiens cDNA
11601	24200	37521	4.76	0.0E+00	11435244	NT	MIR4-ST0118-261089-012-b03 ST0118 Homo sapiens cDNA
11601	24200	37522	4.76	0.0E+00	11435244	NT	MIR3-SN0010-310300-107-h03 SN0010 Homo sapiens cDNA
11608	24206	37529	5.87	0.0E+00	U36253.1	NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11612	24210	37533	2.29	0.0E+00	BE379254.1	EST_HUMAN	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11612	24210	37534	2.29	0.0E+00	BE379254.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 5
11632	24229	37553	2.22	0.0E+00	BE794750.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11634	24231	37554	45.09	0.0E+00	BE879633.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11640	24237	37560	1.62	0.0E+00	4758827	NT	601590588F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'
11640	24237	37561	1.62	0.0E+00	4758827	NT	601491821F1 NIH_MGC_80 Homo sapiens cDNA clone IMAGE:3894220 5'
11644	24241	37565	1.85	0.0E+00	AF053543.1	NT	Homo sapiens neuroxin III (NRXN3) mRNA
11648	24243	37572	1.56	0.0E+00	AL163204.2	NT	Homo sapiens glutathione transferase zeta 1 (GSTZ1) gene, exons 6 and 7
11653	24250	37572	14.06	0.0E+00	BE409893.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
11654	24251	37573	1.46	0.0E+00	BE148650.1	EST_HUMAN	601289403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629544 5'
11655	24252	37574	2.69	0.0E+00	AF223391.1	NT	MIR4-HT0241-150500-011-402 HT0241 Homo sapiens cDNA
11655	24252	37575	2.69	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11657	18187	30878	1.29	0.0E+00	D26535.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11657	18187	30878	1.29	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11658	24254	37576	5.6	0.0E+00	BF681641.1	EST_HUMAN	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11658	24254	37577	5.6	0.0E+00	BF681641.1	EST_HUMAN	602155722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4298725 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11662	24258		1.93	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11664	17606	30563	1.5	0.0E+00	AF272663.1	NT	Homo sapiens gephyrin mRNA, complete cds
11667	24262	37596	1.71	0.0E+00	AU132840.1	EST_HUMAN	AU132840 NT2RP4 Homo sapiens cDNA clone NT2RP400029 5'
11670	24265	37598	1.35	0.0E+00	BE903372.1	EST_HUMAN	601676357F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958935 5'
11687	24282	37604	2.5	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11687	24282	37605	2.5	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11728	25136		15.74	0.0E+00	BF309120.1	EST_HUMAN	601890534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131416 5'
11737	24330	37654	11.96	0.0E+00	BE297175.1	EST_HUMAN	601177407F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532968 5'
11751	24342	37671	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576625F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
11751	24342	37672	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576625F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
11757	24348	37678	1.43	0.0E+00	BE257612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11757	24348	37679	1.43	0.0E+00	BE257612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11785	24375	37705	1.69	0.0E+00	BE257608.1	EST_HUMAN	601114240F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354872 5'
11790	24380	37710	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151298-001-c11 BT0348 Homo sapiens cDNA
11790	24380	37741	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151298-001-c11 BT0348 Homo sapiens cDNA
11792	24382	37713	2.23	0.0E+00	AW367811.1	EST_HUMAN	MR0-HT0168-271199-005-g03 HT0168 Homo sapiens cDNA
11792	24382	37714	2.23	0.0E+00	AW367811.1	EST_HUMAN	MR0-HT0168-271199-005-g03 HT0168 Homo sapiens cDNA
11797	24387	37720	2.46	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002812 5'
11797	24387	37721	2.46	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002812 5'
11808	14946		1.31	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11821	18891	31659	2.45	0.0E+00	U07223.1	NT	Human beta2-chimaerin mRNA, complete cds
11822	24407	37741	5.54	0.0E+00	Z31706.1	NT	H. sapiens GLAST1 gene for glial glutamate transporter, exon8
11835	24419	37760	2.28	0.0E+00	A858185.1	EST_HUMAN	tt39f02.x1 NC1 CGAP GC8 Homo sapiens cDNA clone IMAGE:2243067 3' similar to SW:CG2G_HUMAN
11837	24421	37762	2.31	0.0E+00	AU132394.1	EST_HUMAN	P51959 G2MITOTIC-SPECIFIC CYCLIN G1.
11879	25389	30600	2.27	0.0E+00	BE312542.1	EST_HUMAN	AU132394 NT2RP3 Homo sapiens cDNA clone NT2RP3004339 5'
11883	25257		3.89	0.0E+00	AB010093.1	EST_HUMAN	601150023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 5'
11902	24468		1.6	0.0E+00	AB011398.1	NT	qel7b12.x1 Soares fetal lung NibHL19W Homo sapiens cDNA clone IMAGE:1739231 3'
11921	24482		4.9	0.0E+00	AL163246.2	NT	Homo sapiens gene for AF-6, complete cds
11929	24488		4.1	0.0E+00	11417862	NT	Homo sapiens chromosome 21 segment HS21C046
11947	24501		3.05	0.0E+00	5802973	NT	Homo sapiens calcineurin binding protein 1 (KJAA0330), mRNA
11982	25218	30816	2.59	0.0E+00	AF240786.1	NT	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA
11983	25228		5.39	0.0E+00	AL041831.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
							DKFZp434K0819_r1 434 (synonym: htae3) Homo sapiens cDNA clone DKFZp434K0819 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12015	25369		3.12	0.0E+00	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
12023	24551		3.91	0.0E+00	AL048644.1	EST_HUMAN	DKFZp434G218.1_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G218.5
12037	25281		1.68	0.0E+00	AI903497.1	EST_HUMAN	IL-BT030-271088-001 BT030 Homo sapiens cDNA
12076	25390		1.52	0.0E+00	N54484.1	EST_HUMAN	y40e08.x1 Soares fetal liver spleen TNLFS Homo sapiens cDNA clone IMAGE:245222 3' similar to SW-POL_BAEVYM P10272 POL POLYPROTEIN ;
12089	24594		5.88	0.0E+00	AF106568.1	NT	Homo sapiens adenylosuccinate lyase gene, complete cds
12092	13593	28262	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12092	13593	28263	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12100	25284		2.21	0.0E+00	10062587	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA
12129	13318		2.04	0.0E+00	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12218	26198	30814	2.63	0.0E+00	AW590082.1	EST_HUMAN	hg31e06.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2947234 3' similar to contains Alu repetitive element; contains element MER22 repetitive element ;
12229	25248		1.34	0.0E+00	BE080210.1	EST_HUMAN	RC8-BT0711-230300-011-D05 BT0711 Homo sapiens cDNA
12273	25258		4.43	0.0E+00	AF088757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12308	24732		3.36	0.0E+00	9835487	NT	Human endogenous retrovirus, complete genome
12351	25252		2.41	0.0E+00	AI204914.1	EST_HUMAN	an05h04.x1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684759 3'
12383	24778		1.88	0.0E+00	AI904646.1	EST_HUMAN	QV-BT065-020398-103 BT065 Homo sapiens cDNA
12405	14718	27436	1.51	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12405	14718	27437	1.51	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12423	24789	31039	2.08	0.0E+00	AF038365.1	NT	Homo sapiens caveolin-3 (CAV3) mRNA, complete cds
12435	14424	27119	2.76	0.0E+00	H30132.1	EST_HUMAN	y05e08.r1 Soares breast 3NHBTat Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64098
12435	14424		2.76	0.0E+00	H30132.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
12446	24816	27120	10.06	0.0E+00	D50859.1	EST_HUMAN	y05e08.r1 Soares breast 3NHBTat Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64098
12448	24818	31020	2.51	0.0E+00	11418189	NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
12448	24818	31021	2.51	0.0E+00	11418189	NT	Human gamma-cytoplasmic actin (ACTGP9) pseudogene
12464	14817	27549	1.53	0.0E+00	4759489	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12502	24859		1.5	0.0E+00	AW864999.1	EST_HUMAN	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
12538	13953	26617	2.09	0.0E+00	8922593	NT	H88a08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979154 3'
12544	24894		1.88	0.0E+00	11528291	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
12568	16089	28718	4.24	0.0E+00	4885312	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
							Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12576	17905	30582	3.06	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12682	24905		2.12	0.0E+00	AB029000.1	NT	Homo sapiens CST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5
12622	24927	31009	2.06	0.0E+00	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160KD subunit (CPSF1), mRNA
12648	25410		2.66	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
12664	13390	26021	2.77	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12729	24989	30972	1.5	0.0E+00	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12735	25004		4	0.0E+00	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
12780	25042	30987	1.76	0.0E+00	AW025032.1	EST_HUMAN	wu83c07.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE2527596 3' similar to TR:Q12844 Q12844 BREAKPOINT CLUSTER REGION PROTEIN, contains TAR1.13 TAR1 repetitive element;
12808	13890	26550	1.37	0.0E+00	9868844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
12818	25251		1.39	0.0E+00	AF083824.1	NT	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 8

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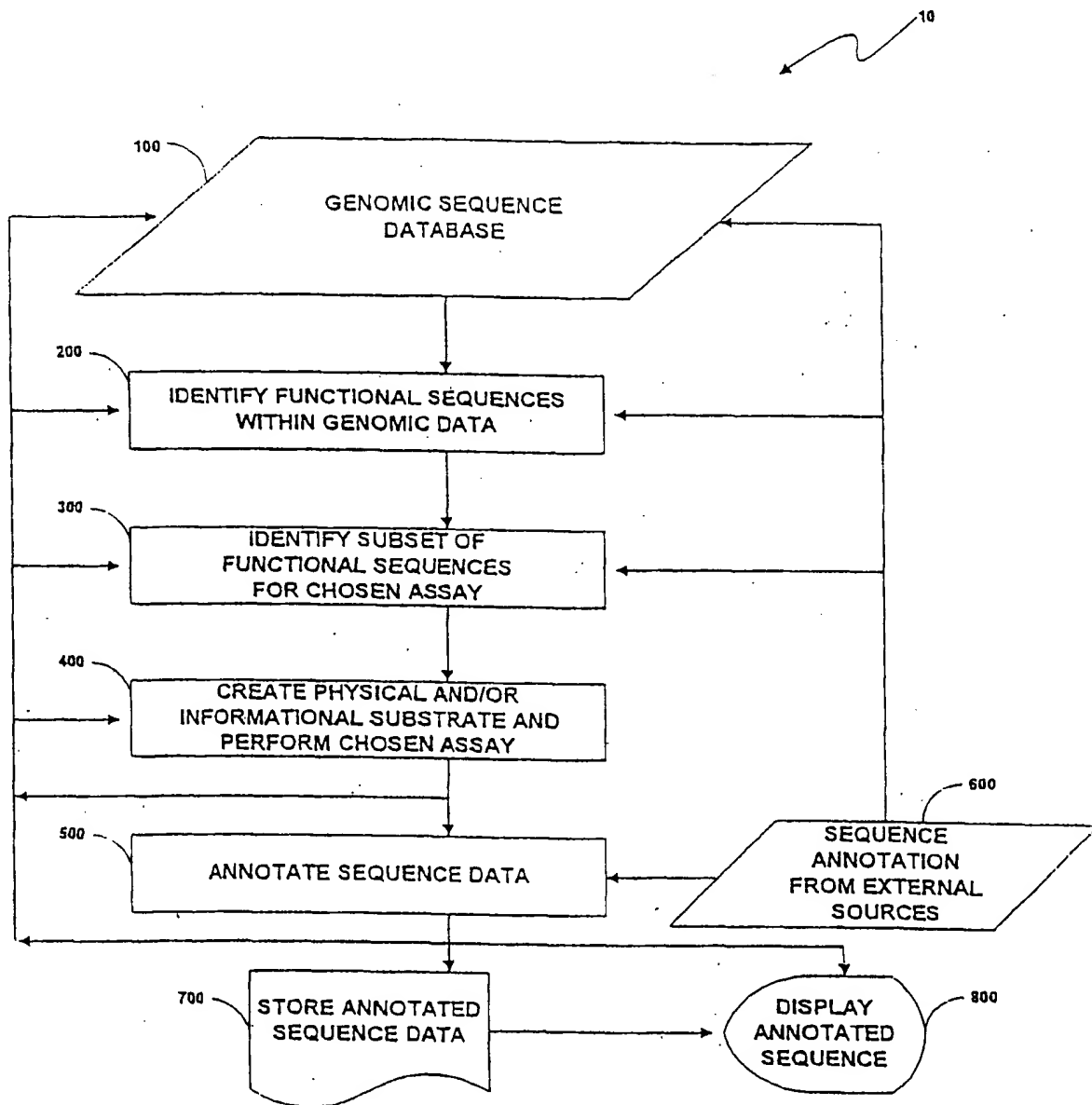


Fig. 1

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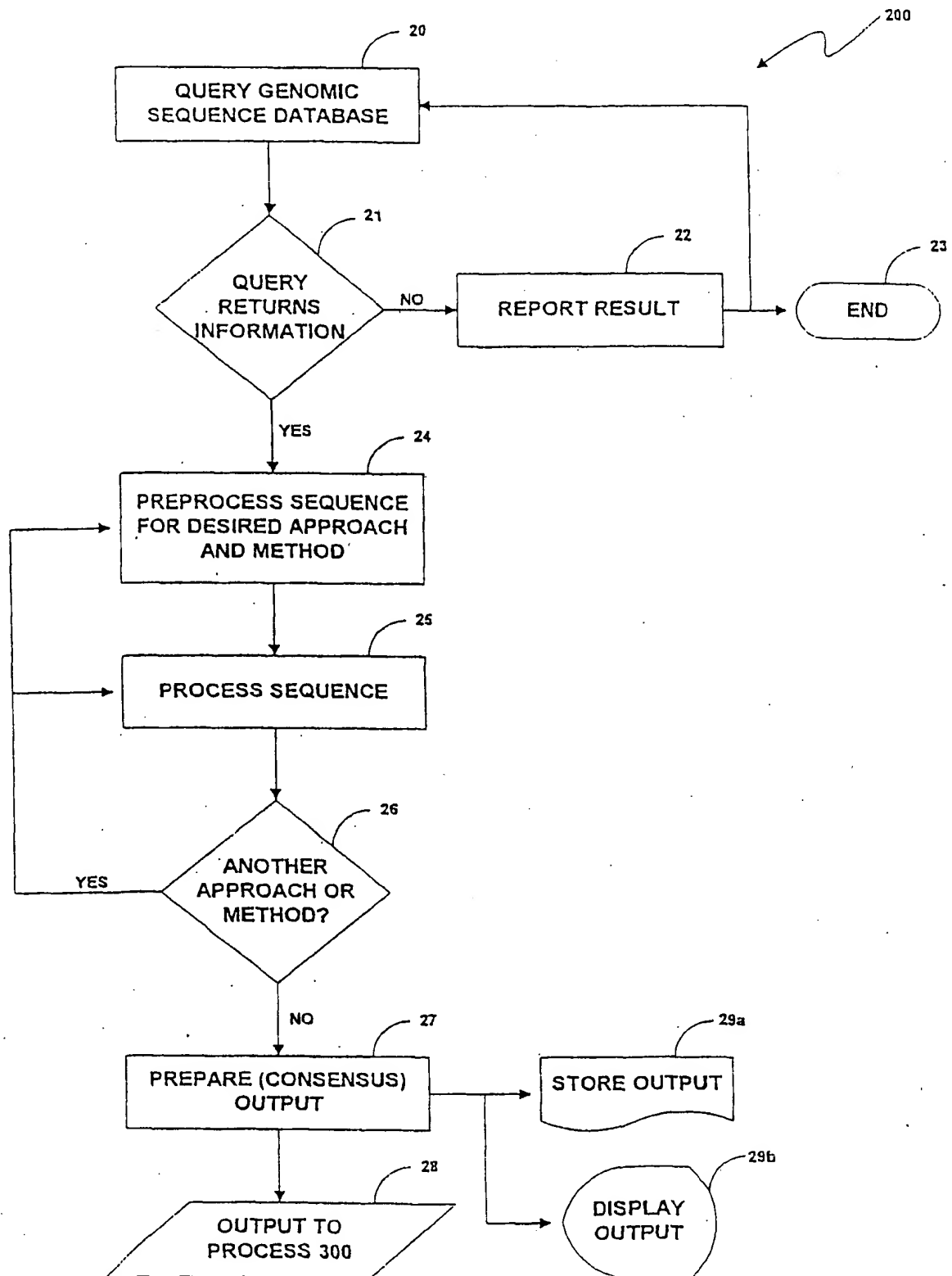


Fig. 2

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80

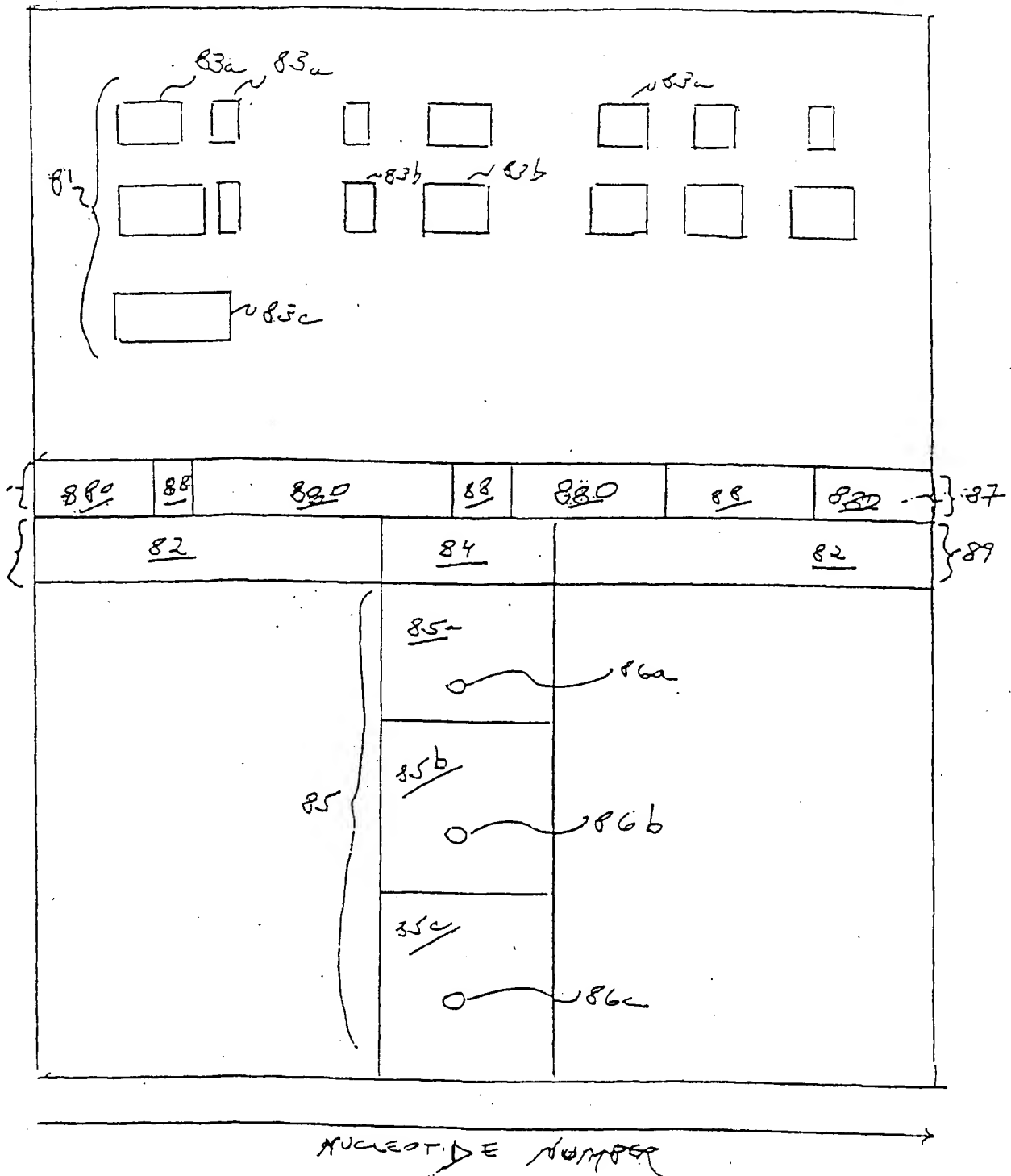


Fig. 3

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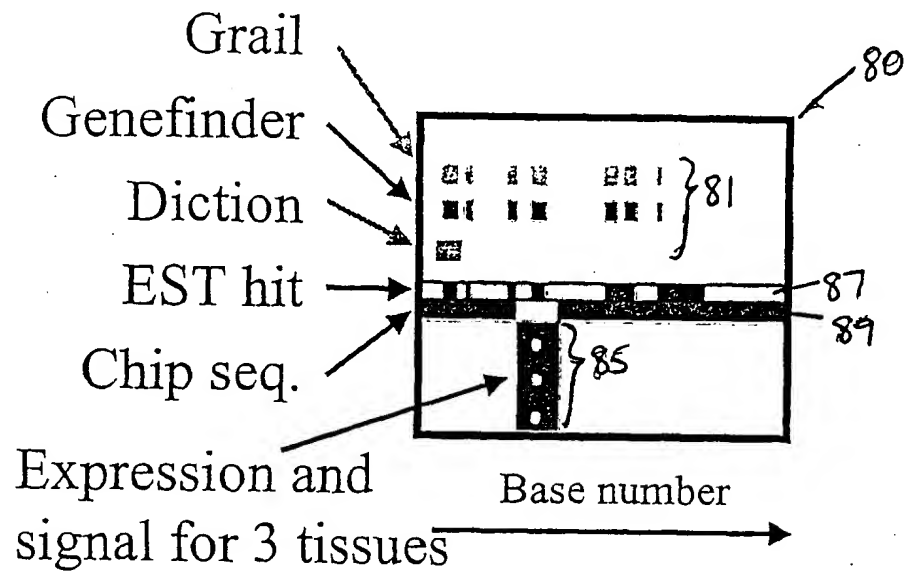


Fig. 4

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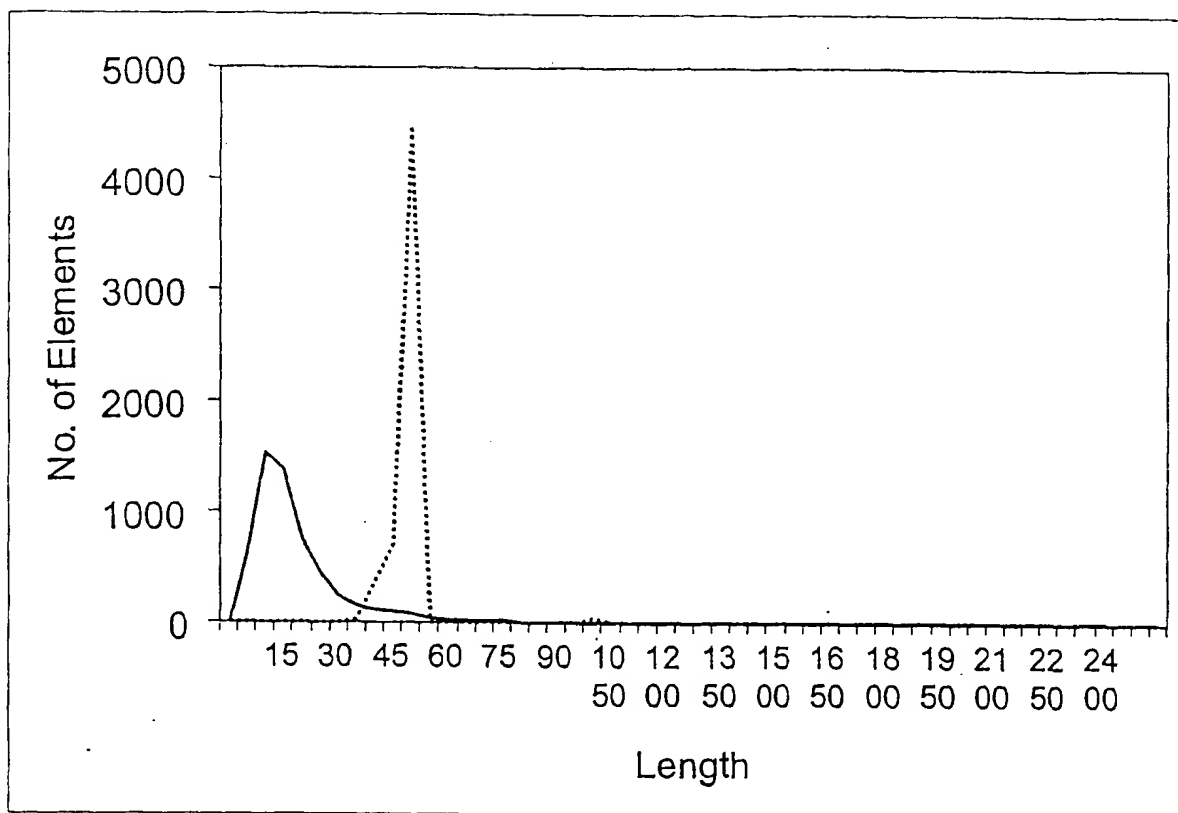


Fig. 5

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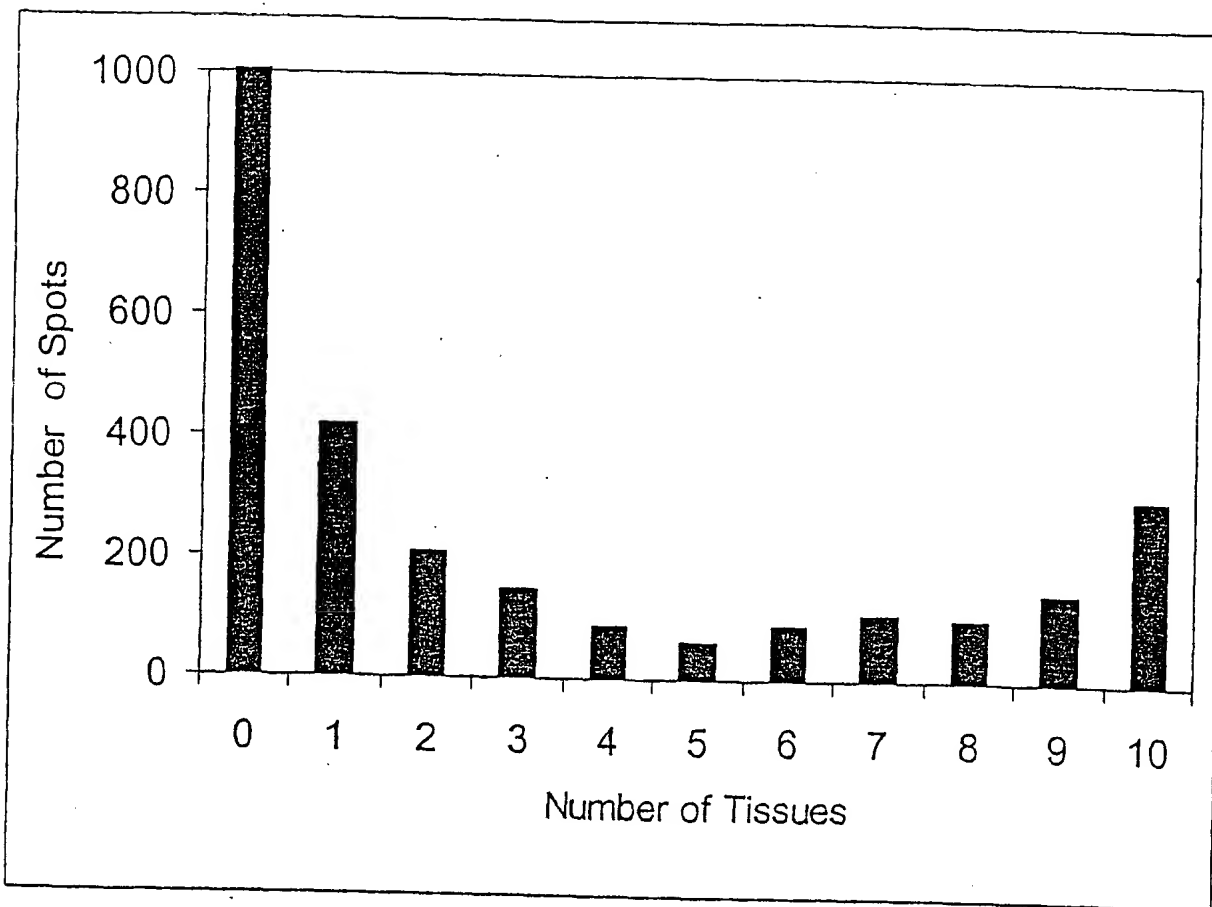


Fig. 6

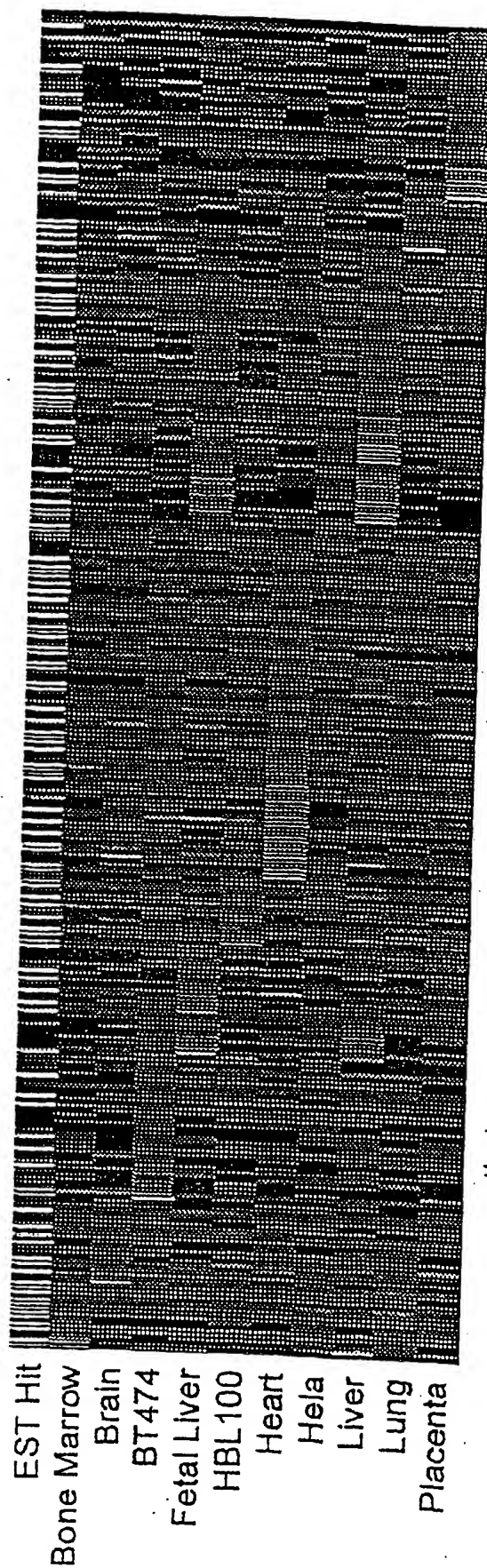


Fig. 7a

ratio legend

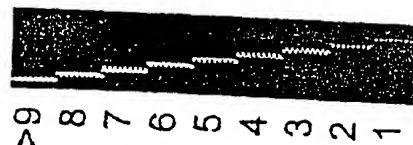


Fig. 7b

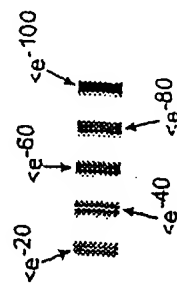


Fig. 7c

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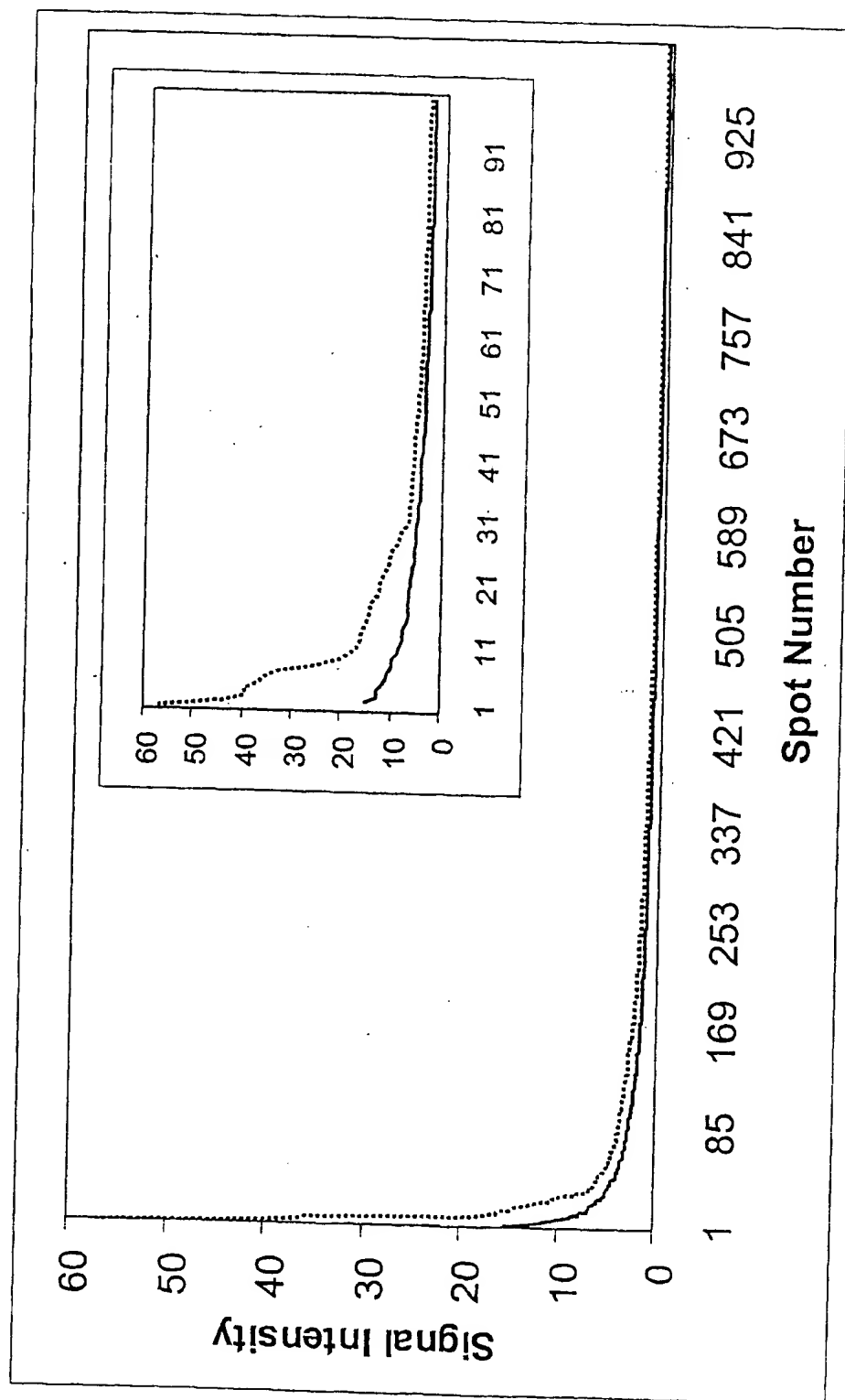


Fig. 8

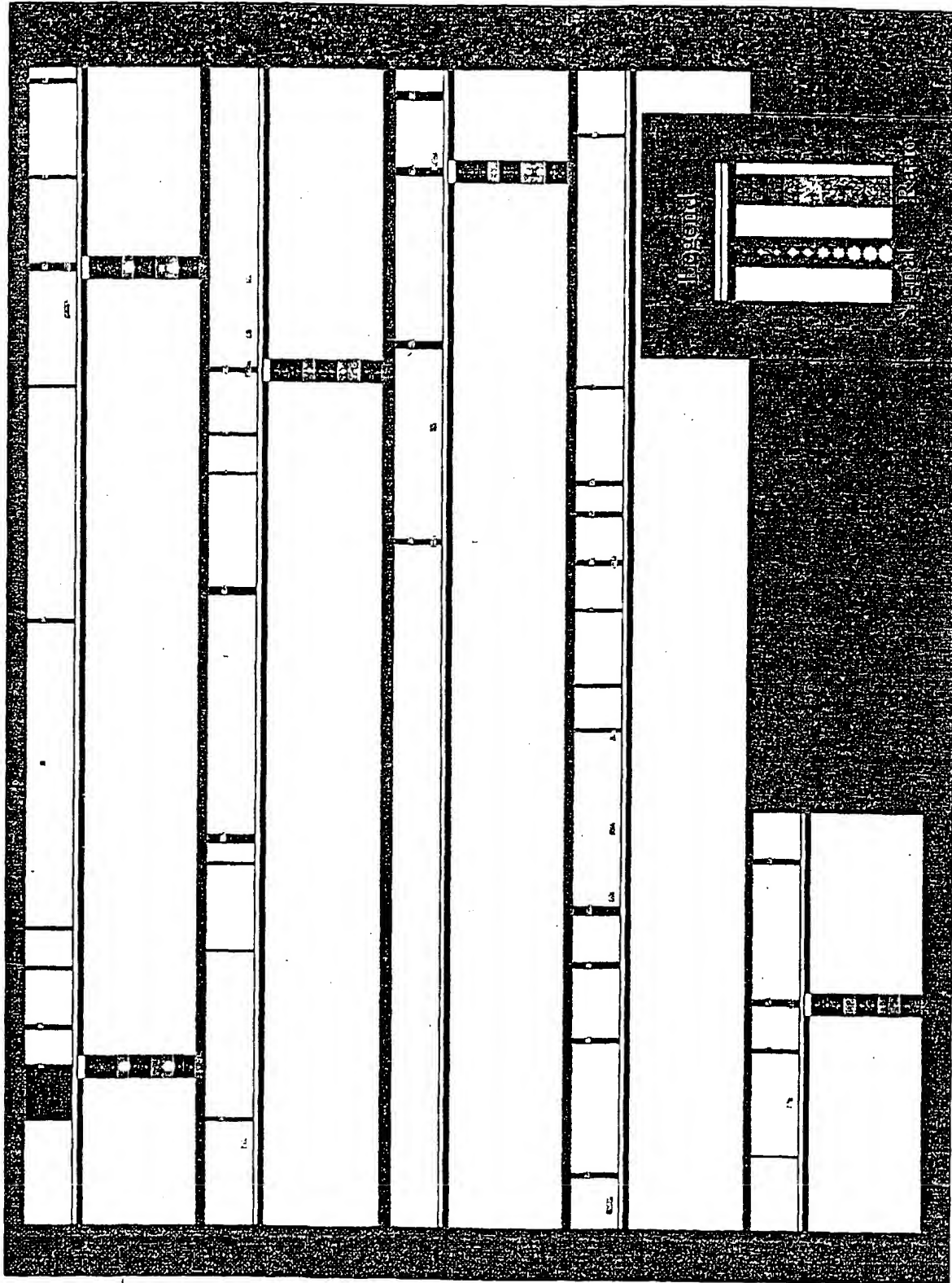
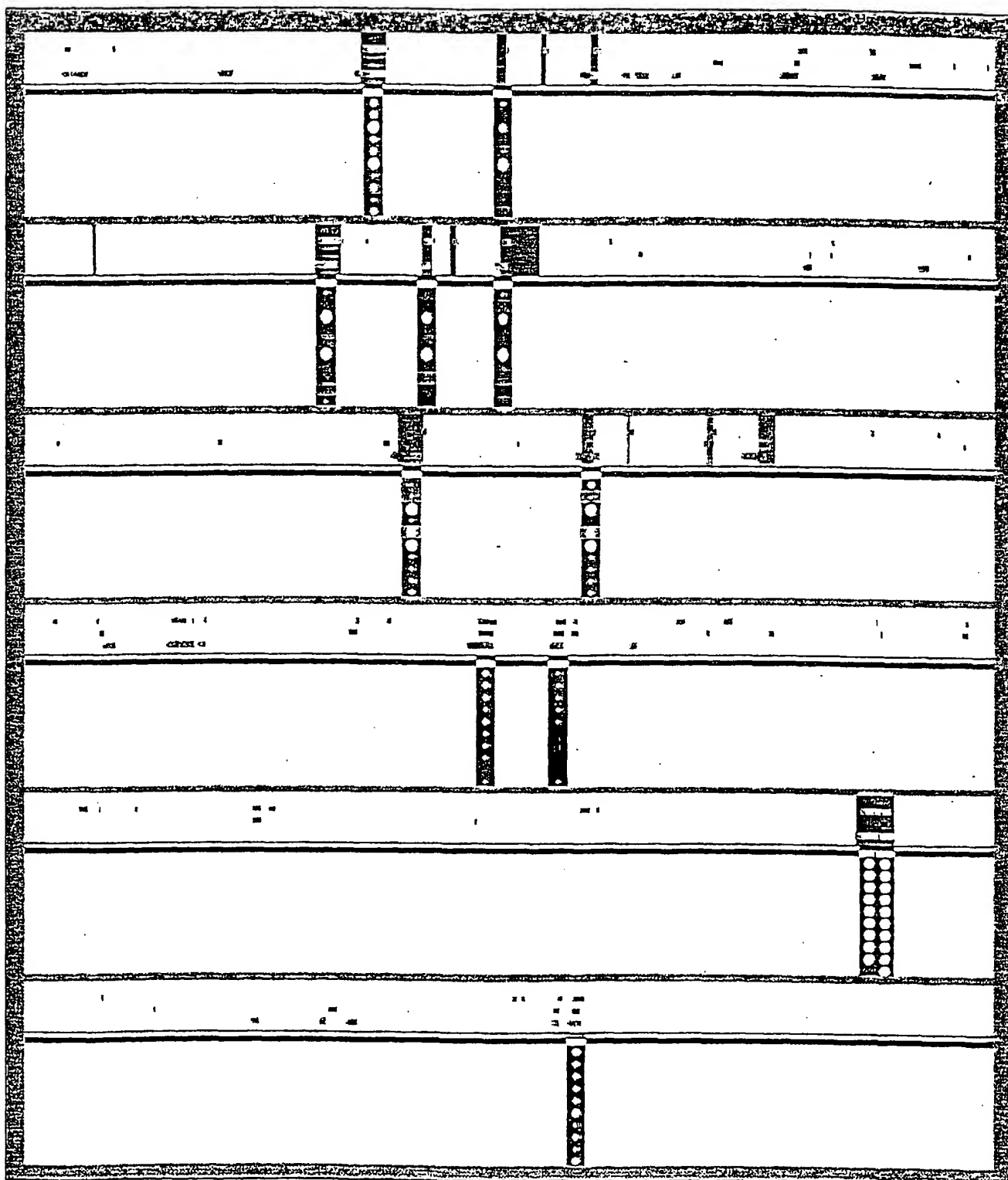


Fig. 9

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Fig. 10



(19) World Intellectual Property Organization
International Bureau



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- (74) Agent: **RONNING, Royal, N., Jr.**; Amersham Pharmacia Biotech, Inc., 800 Centennial Avenue, Piscataway, NJ 08855 (US).
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| 60/180,312 | 4 February 2000 (04.02.2000) | US |
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| 09/608,408 | 30 June 2000 (30.06.2000) | US |
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| 60/234,687 | 21 September 2000 (21.09.2000) | US |
| 60/236,359 | 27 September 2000 (27.09.2000) | US |
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- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
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- (71) Applicant (*for all designated States except US*): **AEOM-ICA, INC.** [US/US]; 928 East Arques Avenue, Sunnyvale, CA 94085 (US).
- (72) Inventors; and
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(54) Title: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN BRAIN

(57) Abstract: A single exon nucleic acid microarray comprising a plurality of single exon nucleic acid probes for measuring gene expression in a sample derived from human brain is described. Also described are single exon nucleic acid probes expressed in the brain and their use in methods for detecting gene expression.



WO 01/057275 A3

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68 G06F19/00 C07K14/47

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, EMBASE, CHEM ABS Data, EMBL, BIOSIS, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL 'Online! ID:AC007372, April 1999 (1999-04) DICKHOFF ET AL.: "Homo sapiens chromosome 14 BAC containing gene for type 2 iodothyronine deiodinase (DI02) gene" XP002186078	13-21,25
Y	abstract	1-12, 22-24, 26,27
X	DATABASE EMBL 'Online! ID:CNS0000F, 11 May 1999 (1999-05-11) HEILIG ET AL.: "Sequencing of the human chromosome 14" XP002186079	13-21,25
Y	abstract	1-12, 22-24, 26,27
-/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

26 September 2002

Date of mailing of the international search report

08.10.2002

Name and mailing address of the ISA

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Authorized officer

Hagenmaier, S

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL 'Online! ID: AQ750225, 20 July 1999 (1999-07-20) MAHAIRAS ET AL.: "Construction of a Characterized Clone Resource for Genomic Sequencing" XP002186080	13-21,25
Y	abstract	1-12, 22-24, 26,27
Y	--- WO 98 30722 A (MACK DAVID H) 16 July 1998 (1998-07-16) the whole document	1-12, 22-24, 26,27
Y	--- WO 99 67422 A (SMITHKLINE BEECHAM CORP ;LEARY JEFFREY J (US); TAL SINGER RUTH (US) 29 December 1999 (1999-12-29) the whole document	1-12, 22-24, 26,27
Y	--- BURGE C ET AL: "Prediction of complete gene structure in human genomic DNA" JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 268, no. 1, 25 April 1997 (1997-04-25), pages 78-94, XP002109301 ISSN: 0022-2836 the whole document	1-12, 22-24, 26,27
Y	--- CHURCH D M ET AL: "ISOLATION OF GENES FROM COMPLEX SOURCES OF MAMMALIAN GENOMIC DNA USING EXON AMPLIFICATION" NATURE GENETICS, NEW YORK, NY, US, vol. 6, 1994, pages 98-105, XP000608940 ISSN: 1061-4036 the whole document	1-12, 22-24, 26,27
Y	--- TAKAHASHI N ET AL: "High-density cDNA filter analysis of the expression profiles of the genes preferentially expressed in human brain" GENE, ELSEVIER BIOMEDICAL PRESS. AMSTERDAM, NL, vol. 164, no. 2, 27 October 1995 (1995-10-27), pages 219-227, XP004041878 ISSN: 0378-1119 the whole document	1-12, 22-24
	--- -/--	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>YASOJIMA K ET AL: "TANGLED AREAS OF ALZHEIMER BRAIN HAVE UPREGULATED LEVELS OF EXON 10 CONTAINING TAU MRNA" BRAIN RESEARCH, AMSTERDAM, NL, vol. 831, no. 1/2, 1999, pages 301-305, XP000929899 ISSN: 0006-8993 the whole document</p>	1-12, 22-24
Y	<p>ERMAK G ET AL: "RESTRICTED PATTERNS OF CD44 VARIANT EXON EXPRESSION IN HUMAN PAPILLARY THYROID CARCINOMA" CANCER RESEARCH, AMERICAN ASSOCIATION FOR CANCER RESEARCH, BALTIMORE, MD, US, vol. 56, no. 1, 1 March 1996 (1996-03-01), pages 1037-1042, XP002063388 ISSN: 0008-5472 the whole document</p>	1-12, 22-24

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1-24,26 (partially)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
1-27 (all partially)
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-24,26 (partially)

The following statements about the impossibility of performing a meaningful search according to Art. 17(2) PCT are made for the subject matter for which a search has been performed and identified as the first invention in form 206 PCT. If additional fees are paid for the (one or more) as yet unsearched inventions, similar statements about incomplete searches could be issued.

Present claims 1-12 and 22-24 relate to an extremely large number of possible sets of nucleic acid probes comprising Seq.Id. 1 or 2 as well as microarrays comprising said sets. In fact, the claims contain so many possible permutations that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search for the sets of probes comprising Seq. Id. 1 or 2 has been limited to the Seq. Id. as such.

Claims 1-3, 5, 6, 8-15 and 18-24 relate to portions or fragments of nucleic acids defined by Seq. Id. 1 or 2. The length or other similar characterizing features of the portions or fragments is not disclosed, bringing the total number of possible prior art sequences to exceptionally high numbers. The shorter the length, the higher the possibility that an overflow of, in principle unrelated, sequences are retrieved, making the establishment of a meaningful International Search Report impossible. For this reason the search has been limited to portions or fragments of Seq. Id. 1 or 2 having a significant minimum length and being supported by the description, namely at least 15 contiguous nucleotides (see claim 16).

Claims 15-21 relate to an extremely large number of nucleic acid probes. The probes are defined solely by their potential to code for peptide Seq. Id. 25443. However, due to the degeneracy of the genetic code, every peptide is potentially coded by an extremely high number of nucleic acid sequences. In fact, the claims contain so many potential nucleic acid sequences that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search over the whole scope of the claims impossible. The search has therefore been carried out for those parts of the claims which do appear to be clear and concise, namely the nucleic acid sequences disclosed in the application and identified as encoding the referred peptide in table 4 (Seq. Ids. 1 or 2 and 12830).

Likewise, claim 26, which refers to peptides encoded by Seq. Ids. 1 or 2 and 12830, encompasses a high and undefined number of possible peptides. Besides three possible reading frames deriving from the encoding nucleic acid strand, as well as three additional reading frames deriving from the complementary nucleic acid strand, every possible fragment of these is being covered by the claim. This is due to the potential presence of stop codons within any of the six possible reading frames which can not be established a priori. Thus, claim 26 contains so many potential peptide

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

sequences that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search over the whole scope of the claim impossible. Consequently, the search has been carried out for those parts of the claim which do appear to be clear and concise, namely the peptide disclosed, identified by Seq. Id. 25443.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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			JP 2001508303 T	26-06-2001
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			JP 2002518064 T	25-06-2002
			WO 9967422 A1	29-12-1999